

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9249	39617	A	9308	668	826	VNSHSQLLQRE*NT*ESNLQGM *RTSSRRTTNHCSRK*KRIQTNG RTFHAHG
9250	39618	A	9309	497	1042	LPRIPTVLTSQVRRDQWYRRFG RRPSG*PGNWSSSPVEKSA TRT LRITG TSAIPSEAITGSSAVVRR VPAGKTTAPTEIKSTPVSA NSRS VLSVTL PDTSSSALPLVRLTASR ICSVSKLSSMMISAPAFRASSSS SRFSTSTSTGASGCSQDAFSTA WRTEPAIHWFSLRKASESPRR
9251	39619	C	9310	1	3447	
9252	39620	A	9311	570	647	
9253	39621	A	9312	1071	1323	RPPPHRLSGCYHPSHRRPVHGF HHA*RQRQFRR*TVDTLPADAP LPSPHPAHFRPL/TSIFCPVSTMA DNASM*RNSCCRLSARG
9254	39622	B	9313	1	2585	
9255	39623	A	9314	133	357	SSFFQFCEEIHW*LDGDGIESIN YLRQ*GHFHKIDPSYP*AWNVL PFVCVLFHFIEQWFFVLLLEEV LHPCPLY

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9256	39624	A	9315	1	2680	MLVLPFLQPFMRILDHDSSID HRPDGGRNATQRHNIGIQSLEV HDNKSNTQPRQRNRHRQRRRA HMPEKQRTDYRRDPLESPKAA AACLFPAIADPNTPPVFTPPASL PTTGM/FDSPPFNRDA*MVMRS LIRSMTVARAVIGVAICNKG ATMMALAAQHNIATVLPVGGGA TLPKADGDEVNGKVQTI GARFA NGELSLQDARRAGCKACASSV RRSCQFLGTAGTSQVV AEGGL AIPHSALAPSGEPVWREIARAS ARAALNLSQKGITREILTDKAI ENAMTVHAAFGGSTNPLLHIPA IAHQAGCHIPTVDDWIRINKRV PRLVSVLPNGPVYHPTVNAFM AGGVPEVMLHLRSLGLLHEDV MTVTGSTLKENLDWEHSERR QRFKQLLLDQEQINADEVIMSP QQAARGLTSTITFPWQYAWIL HPDLDPETLLKLLSLRRFWAET PVGKNRITQMTNARHRTGFGQ VTIHHTGVQFMGFITRKDSANS GVKQWTLFQQTHRFRHHIQR T FARFQHFLPGFNNGRQRLDVAS VFMEFTTGLMSLDTALNEMLS RVTPLTAQETPLPVQCFGRILAS DVVSPLDVPGFEDNSAMDGYAV RLADIASGQPLPVAGKSFAGQP YHGEWPAAGTCIRIMTGA PPVPEGCEAVVMQEQT EQMDNGVRFTAEVR SQNRIRRRGEDISAGAVV
9257	39625	B	9316	1	2577	
9258	39626	A	9317	2	772	AFGASLAQDKPNTGTG*KSPSH PLLRLVLDIGKICHLARKVGA VS VVDNPFIRPALQNPLALRAD LV LHSCTKYLNGHSDVVAGV VIA KDPDVVTELA WANNIGVTG GAFDSYLLR GLRTLVPRMELA QRNAQAI VKYLQTPLVKKLY HP SLPENQGHEIAARQKGF GA MLSFELDGDEQTLRR FLGGLSLFTLAESLGGVE KLISHAATMTH AGMAPK ARAAGISETLLRIST GIENGENLIADLENGFPA
9259	39627	B	9318	68	1895	
9260	39628	A	9319	I	636	
9261	39629	A	9320	I	942	

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9262	39630	A	9321	479	969	MPSTSQ*I/ISEDVFELNAARYR DEEIQRTPQRYSSRRPTQRHIV RFTKVEIKEKMLRAAREKGGV AHKRRPRLTADLSAETLQARR EWGPIFNILKEKNFQPRISYPTK LSFISEGETKSFTDKQMLRDFGT TRPPLKELLKEALNMERNRY QPQQKHTKL
9263	39631	A	9322	1	652	MGKKQSRKTGNSKNQASPPPP KERSSSRAMEQSWTENDFDEL REEGFRRSNYSELKEEVQTHGK EDKNLEKLDDEWLARIINAES LKDLMEKTKARELCDECTSL SRFDQLEDGVSVMEDMNEMK SEGKFRKRIKRNEQSLQEIWD YVKKPNLCLIGVPESDRKNGTK LENTLQDIQENFPNLGGQANIH IQENQRTPQRYSLRRATPRHLI VRFTKVEMKEKMLRAAREKG R/VTHGKGPRLTTADLSAETLQ AR/RTWGPINFILKEKNFQPRI SYPAKLSFISEGEIKYFIDKQML RDFCHHGQIPLKELLERKALK HGKGNQ*PPPKERSSSRAMEQ SWTENDFDELREEGFRRSNYSE LKEEVQTHGKEDKNLEKKLDE WLARIINAESLKDLMEKTKA RELCDCTSLSSRFQLEDGVS VMEDEMNEMKSEGKFRKRIK RNEQSLQEIWDYVKKPNLCLIG VPESDRKNGTKLENTLQDIQE NFPNLGGQANIHQIEPENATKIL
9264	39632	A	9323	403	410	VFLIRWGGKPLKRKLYFLHCSI TQALV*ACQGYLG*IVGAKNI KYIDFFITASRYLRMLAQVFE*I LLLREVTRY
9265	39633	A	9324	174	1252	

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9266	39634	A	9326	1	1049	MHRSDMSPDKVDILDTTAFRI AINEVKHSLTSVTVKVLD MF ISRSSLFPIDDLDDGHSDQVG VLNSPTCYSAHQNGERIERFSR KV FVGGLPPDIDEITASFRRF GPLVVDWPHKAESKSYFPPKG YAFLLFQEESVQALIDACIEED GK\LYLCVS*PLLSKDKPSSKYV PWNLSDSDFVMDGSQPLDPRK TIFVGGVPRPLRAVELAMIMDR LYGGVCYAGIDTPELKYPKA PGRVAFSNQQSYIAAISARFVQ LQHGDIKRVVEKPYVLDDQM CDECQGARGCGKFAPFFCANV TCLQYYCEFCFWANIHSRAGRE VHIPLVTESA VAAPRIHIPWT
9267	39635	A	9327	2	126	IASNSWNSSSPGEAREDPGE LDKGLDND AEGVWSPDIEQSF QEALAIYPPCGRRKILSDEGKM YGRNELIARYIKLRTGKTRTRK QVSSHQVLARKKVREYQVGIK AMNLDQVSKDKALQSMASMS SAQIVSASVLQNKFSPPSLPQA VFSTSSRFWSSPPLLGQQPGPSQ DIKPFAPAYPIQPPLPPTLSSYE PLAPLPSAAASVPVWQDRITAS SRLRLLEYS AFMEVQRDP*TRT SKHLFVHIRHTDRNPRRFFRTPP LGPVVDVRQIYDNPFEKKGGL KELYEKGPPNAF\FLVKFWADL NSTIQEGPGAFYGVSSQYSSAD SMTISVSTK VCSFGKQVVEKVE TEYARLENGRFVYRIHRSPMCE YMINFIHKLKHLPEKYMMSV LENFTILQVVTSRDSQETLLVIA FVFEVSTSEHGAQHVVYKLVK
9268	39636	A	9328	1	1327	
9269	39637	A	9329	2	339	TYGCASPSRKPVRMPLVTAQVP ITALRVNSSSIPAQSAVETTSNR PPTTGVPFRPVRAAV*AVISPO ISADPTTGGRA*LISAIPSQSVRH GSYSPRLML*RLDSEILLSQPL TPVKHQRR
9270	39638	A	9330	1505	1876	
9271	39639	A	9331	1	1710	
9272	39640	A	9332	1	1191	

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9273	39641	A	9333	838	1365	STETLSPLPATPGVEVTLRLHLDV VSAEQQMFSGLVEKIQVTGSEG ELGIYPGHAPLLTAIKPGMIRIV KQHGHEEFYLSGGILEVQPGN VTVLADTAIRGQDLDEARAME AKRKAEEHISSSHGDDVYAQAS AELAKAIAQLRVIELTKKAM*H RLEKHKSSQSGNRLAFFCACDPS
9274	39642	A	9334	3	601	MLSAVGYP/TLAEEMGVLOE RIPSTKTGSITSVQAVVVPADDL TDPSPATTFHAHLDATVVLRSQI ASLGIYPAVDPLDSTSRQLDPL VVGQEHYDTARGGQFILARYQ ELESLLAAILGMNDLSEEDKL VV ARARKIQRFSLSPFFVAEVFTGS PGKYVSLKDTIRGFKGIMEGEY DHLPEQAFYMVGSIEEAWEKA
9275	39643	B	9335	681	1071	
9276	39644	A	9336	203	2189	VASSARRGLPVHGPAPLQGPNG SQDRL/ESGTRNRCGLRGLVKG GKGGFRFPSARLIQTVKKGTPS RDHAIIEPSGYVSVAGVGERTR KGSVFAHEMPDCNVIDKVS LV YGMTEPPGNCMRVALSGLTM AEKFRDEGRDVLVFDNIYRYA LAG*ERFATVGR*ASN/AVGIQ TLAEKMGVLQERITSTKTGSITS VQAVVVPANDLTDPSPATTF HLDATVVLRSQIASLGIYPAVD PLDSTSRQLDPLVVGQEHYDTA RGG*SI/LQRFQELKDFMALP/G LSEDLSEEDKL VVARARKIQRF LSQPFVVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF YMGDMAMTYHLDVVSAAEQ MFSGLVEKIQVTGSEGELGIYS GHAPLLTAIKPGMIRIVKQHG EEFIYLSGGILEVQPGNVTVLAD TAIRGQDLDEARAMEAKRASG KVKPSIMQSLTPEKIAAILPLQF FPQPADFTGPYVMLTSRRNNRA LSRCDQTLMPGLAIRGIRHRH QQAGVRIILNNAIEHVVDGEK VELTLQSGDITLQADVVIYGIS ADEPLAREANLDTANGIVIDEA CRTCDPAIFAGGDPVITSSLINV VDEIHDILLTQPVATRYCIVKVI FEAVMILRDSGGAPFCSNGMAT

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9277	39645	A	9337	905	2319	SRQAQWKGVPSFTSVINYHSLQ KRTTNLTHRQLNLLSTVLYCS CPSIQKLLMLQTGPSPGVGLV DLPLKAMSRPALPNATAALPTG TRTQPPSTPLLTRLPSHRLLLH SGF*AAALLGVSEMTIRRLDNN HSA PVVLLGGYIVLEPRASAHY LLSDQKSRLVEEKKRAAKLAA TLVEPDQTLFFDCGTTTPWIIIEA IDNEIPPTAVCYSLNTFLALKEK PHCRAFP CGATPFSPNPSIFSKRV NNFCRDIAFYYSAGVHVSKGV TCFNLKRWPVKQWAMSAQK HVLVV D HSKFGEVGPVCMGDL KRFDIVVRECCPEDEYVKYAQT QRIKPKDVSRHPVILRLREPGLE PVMEFHHPVLPQRITTESAVVHI AHTRKSWRPEHSA PVLIQTSPV ERGPQYIQCYQLSLTSEENNQP DTQTTTKPAQYSSILFLSKYPKV IVDAPDRSTQRGWSSGLATQSN EQACTTKCNSTCANWHQNTTT FNSTANPSTFKPPTSAALRLVLSL WTGNHCDWCFIRYWRLTPNW QRFRRVGRTERATTHNRLQAF GGHTQGLSPGPRRWLHEQRFP TSDTGGHTADDFRKLDPICQGP YGSHRHSVKSEVNFKEKRYAF APAASFR YTVLIRFCAPPNTGRF LLTGTPPLMLSYRHSFHAGNHA DVLKHTVQSLIIESLKEKDKPFL YLDTHAGAGRYQLGSEHAERT
9278	39646	A	9338	98	596	YSGIIMAAQSKLYPVVMAGGSGS RLWPLSRVLYPKQFLCLKGDLT MLQTTICRLNGVECESPVVICN EQPRFIVAHQMRQLNELSENIIL EPAGRTTAPTIAAALANRHS PESAPLMVLATDHVIANEDAV RAPVKINAIPYKKGKLVTFGIG LDGRVPRYNM
9279	39647	A	9339	2	437	LECPGRSTANCSPRARATSLLL LTHVHGESRDRAQEMVDLLAQ YEQHGLQLNSRELPDHLPLYLE YLAQLPQSEAVEGLKDIAPIAL LSARLQQRESRYAVLFDLLKL ANTAIDS DKVAEKIA/VR SAR*Y AAGAGCCLGRRAG
9280	39648	A	9340	152	334	HLSPQYGSIPRVISRMGGKLIIM DHFHYGRDSILLSME*TLALDA NLQFLYVVLNPNYYL
9281	39649	B	9341	1	1401	

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9282	39650	A	9342	86	2063	
9283	39651	B	9343	1	885	
9284	39652	A	9344	1	101	MDDNITYITFCINPLNLSPQRR MLIITGPNMGGKSTYMRQTALI ALMAYIGSYVPAQKVEIGPIDRI FTRVGAADDLASGRSTFMVEM TETANILHNATEYSLVLMDEIG RGTSTYDGLSLAWACAENLAN KIKALTLFATHYFELTQLPEKM EGVANVHLDLEHGDTFMFM HSVQDGAASKSYGLAVALAALG VPKEVIKRAQKRLRELESISPNA AATQVDGTQMSLLSVPEETSPA VEALENLDPDSLTPRQALEWIY RLKSLGKTMPS TRYQKINAHH YRHIWVVGDIHGEYQLQSR HQLSFFPKIDLLISVGDNIDRGP ESLDVLRLLNQPWFTSVKGNH EAMALEAFETGDGNMWLASG GDWFFDLNDEHQEAIDLKLLKF HHLPHIIEITNDNIYAITTCVGN ARRAHAVHFCGDVARLLTTCQI NIYRGQFRRLPRTFHRRLTKL RDLILRLSAGNLQCCPDRAWRD NIHPNTFLRDLFCQATAVVQNR RLRSRIGDRFLGAVERRFGNDL PSSPVEWLTDNNGSCYRANETRO FARMLGLEPKNTAVRSPESNGI AESFVKTIKRDYISIMPKPDGLT AAKNLAEAFEHYNEWHPHRAN PITYQAVCANHYRTLNGTMT NTG*QYNVYHYIQLPAESVAA APHVDHHRSEHGR
9285	39653	A	9345	1062	1179	PRFVPIAPYAPVRSVCLR*V*T DLPEYGHILFQPADR
9286	39654	B	9346	1	2439	
9287	39655	A	9347	136	629	RSVTPVTDIVKLLFETRLRLPGY TKSIE*TNITFQCAIAAA*KNSVS TPRGGGTGTNGQALNQGIIVD MSRHMNRRIEINPEEGWVRVEA GVIKDQLNQYLKPFGYFFAPEL STSNRATLGGMINTDASGQGS/ LGVRVLLGGDILDTQPLPVEL AETLGKSAE
9288	39656	B	9348	1	4653	
9289	39657	C	9349	584	819	

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9290	39658	A	9350	1	765	MQEWGRTYILSGCCNSALKGD VCLLYGFRVAGRRQASELQELT IGYRAQKNRVSSWCYCHFRQM AKAQHIKGFNLRLRKTAKK*GF QLVLLPFSANGK\AQHIKGFNL RLRKTAKKTRDFLTRMPKLG TMVGVDPALVLCYRDEYKLAL GEERGEFNVLLANEWLASALE QPVATVSGESWYFFGHCTEVT ALPGAPAQWAAIFARFGAKLE NVSVGCCGMAGTYGHEAKNH ENSLGIYELSWHQAMQRLPRN RCLATGYSCRSQVQRVEGTGV RHPVQALLEIK
9291	39659	A	9351	1	1710	
9292	39660	A	9352	1377	1712	IFRASLNQLFCGLLAGRNHRQ RSVRALSQRKMVPTDRK*RC ARRAAR*PSARVL*SGE*TD RQH AD*PTIR*RRSWYLRPAVYAS V RQSDRLYSDEYHW*PVRLQRY VRR
9293	39661	A	9353	203	1293	VASSARRGLPVHGAPLQGGPN SQDRL/ESGTNRCGLRGPLVK GKGGRRFPSARLIQTVMKGGT PS RDHAIIEPSGYSVSAGVGE/R TR EGNDFYHEMTDSNVIDKVS LV YGMQNEPPGNRLRVALTGLT M AEKFRDEGRDVLVFDNIYRY T LAG*ERFATVGR*ASN/AVGY Q PTLAEEMGVLEQERITSTKT GSIT SVQAVYVPADDLTDPSPATTF A HLDATVVLRSQIASLGIYPA VD PLDSTTRQLDPLVVGQEHYHT A RGG*SLQR/QELKDFMALP/G LSDELSEEDKLVARARKIQRF LSQPFVAEVFTGSPGKYVSLK DTIRGFKGIMEGEYDHLPEQAF Y YMGISIEEAVEKAKKL
9294	39662	B	9354	1	505	
9295	39663	A	9355	604	789	TMVASGSRMTST*SRGSVNG CRTILRWKRHSSPLKIKRKQKS L*TMPSF*RLPAENSLFEI

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9296	39664	A	9356	1	1514	SVAVLRE*APKIRIQLATMPLELA DASDQDDNGAEMNLVYDRD TMARLGLDVLAAANSLNNAFG QRQISTIQPMNQYKVVMEVD PRYTQDISALEKMFVINNEGKA IPLSYFAKWQPANAPLSVNHQG LWRALTIWFTLPTGKSLCDPS AAIDRAMTQLGVPSTVRGSFAG TAIQVFQETMNSQVILIAAIAT VYIVLGLIYESYVHPLTILSTLPS AGVGALLALEFNAPSLIALIG IMLLIGIVKKNAIMMVDFALEA QRHGNLTPQEAIFQACLLRFRP IMMTTLAALFGALPLVLSGGDG SELRQPLGITIVGGVMSQLLT LYTTPVVYLFDRLLRFSRKP KQTVTDTRWQLWIVAFGFFMQ SLDITIVNTALPSMAQSLGESPL HMHMVIVSYVLTAVMLPASG WLADKVGVRNIFTAIVLFTLG SLFCALSSSTIRIILRFVSLHMR WQFRDLTFWQMRFRNTNPITSG GSDDSLMLNQSHQRSYSSSI
9297	39665	A	9357	3218	3337	
9298	39666	A	9358	252	771	RRCQILLSGSLHSSWRTLPGHV *QLASAHRRPRR*LPGLEPGEL FVHRNVANLVIHTDLNCLSVV QYAVDVLEVEHIIICGHYCGCG VQAAVENPELGLINNWLHIRD IIHGWAYGIHDGLLRDLDTAT NRETLEQRYRHGISNLKRDVHF TTGRFIQORTNRQRLRFAQA
9299	39667	B	9359	604	831	
9300	39668	B	9360	1	1104	
9301	39669	A	9361	242	337	LTVIHGVSAKTVILSSAVPIQ*K TVRRVSRR

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9302	39670	A	9362	2208	3411	LAADHRRRNAVQRPCNGGQSV QSTDEAAGRLSHADTHGRPA RALPGDCRPETLLRTAGVAE*T KALYTLRSEKTRERPMDKQQA SDEKHRRFHDKESFLA/FVNL WNY/LGEQQKALSSNAFRRLCR TDYLNLYLRVREWQDIYTQLRQ VVKELGIPVNSEPAEYREIHIAL LTGLLSHIGMKDADKQEVTGA RNARFSIFPGSGLFKKPPK WVM VAELVETSRLWGRIAARIDPEW VEPVAQHLLIKRTYSEPHWERAQ GAVMATEKVTVYGLPIVAARK VNYSQIDPALHDTIELGTSPAF LITRWGFGRNLSRTSGGPRQEP RRKEIAMELVLKDAQSALT VSE TTFGGRDFNEALVHQVVVAYAA GARQGTAPKTRAAVTGGMPT LYAVGRLSRIPMDT
9303	39671	A	9363	79	559	TLSPGSINPFKPN*DSVPMTL/ RRFIEVRVFQIHHMRQRP AHL W
9304	39672	A	9364	1	655	THWER/A/QGAVMATEKVTVY GFRIVAARKVNYSQIDPALCRE LFIRHALVEGDWQTRHAFFREN LKLRAEVEELEHKSRRRDILVD DETLFEFYDQRI SHDVISARHFD SWWKKVSRETPDLLNFEKSM LI KEGAEKISKLDYPNFWHQGNL KLRLSYQFEPGADADGVTVHIP LPLLNQVEESGFEWQIPGL/RRE LVMPD*SCQTVTFVPANSHSY

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9305	39673	A	9365	1	2082	MDIQEFPDLKGTTSLEILTLTRA GIRLLPSGMCQQLPRLRVLELS HNQIEELPSLHRCQKLEELGLQH NRIWEIGADTFSQLSSLQALDLS WNAIRSIHPEAFSTLHSLVKL.DL TYSQTLTTLPLAGLGLMHLKL KGNLALSQAFSKDSFPKLRILE VPYAYQCCPYGMCASFFKASG QWEAEDLHLDDESSKRPLGLL ARQAENHYDQDLDELQLEMED SKP/TPSVQCSPTPCPFKPEYL FESWGIRLAVVAIVLLSVLCNG LVLLTVFAGGPAPLPVVKFVVG AIAGANTLTGISGLLASVDAL TFGQFSEY/GLARWETGLGCRA TGFLAVLGSEASVLLTLAAVQ CSVSVCVRAYGKSPSLGSVRA GVLGCLALAGLAAALPLASVG EYGASPLCLPYAPPEGQPAALG FTVALVMMKLLLSWVFGPLP YHQNWYCDLPRGDFEAVWDC AHGEATWAWPHLRKTGLLYCP VAFLSFASMLGLFPVTPEAVKS VLLVVLPLPACLNPLLYLLFNP HFRDDLRLRLRTPRRRTQGGP*PL CCGREDAGERASCDSYPQALV APSLMWISFCEAS*\$WAGPLEL ETYGFPSVTLISCQQFGAPRLEG THCVEPEGNHFGNPQPSLDGEL LLRAEGSTPASGGLSGGWRLSA LWLGLWLHTCKYSPSPFFSSPLF PFLSPSPVNDGCF
9306	39674	B	9366	1	510	
9307	39675	A	9367	88	246	TPMRPMKSPMPTPVSRSGSSSK MG*SSASL*RSIPGLDAGKTPW PAGRSGTWA
9308	39676	A	9368	693	1041	AEGYSQCPNAREGHVDEENED SAPAAQKIP*I*ED*SPHVSQVPV EGEEECVKKQ/GRFSWNTSTS* RQT/TARKLLADQAEARRSKT KEAHKSYEEHLQAKKEEIIKTL SKEETKK
9309	39677	A	9369	1	1911	

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9310	39678	A	9370	1	921	MWRSIFLDSRYLLSSRRKILILIL HVTFSGIRALAVPFRLPVEKMS FIFMGDVIHRLMLTATQYVAPL MANFNPGYSDNSTVVYFDNGQ QIRKLIKDGILIRKPVTVHSRAR CRKNTLARRKGRHIMGIEFACFC CVFLTPALICMVCAVRLLTRDP YLASGDQPLERATGEHASMHE YVPGELGQPPGLYPSHPPGRA GTLRALSRQDTFDADTPGSRNS AYTEL*DSQVMDMTDPSEGPGL GDPCE/GTPPARQGSWEDEED YEEELTDNRNRGRNKARYCAE GWGPVLGRNKNELEGWGRGV
9311	39679	A	9371	3	740	ELFPFAAAAAAAMSMRLQKRL ASSVLRMWQRTNGLG*TPMRP M*SPMPTPRQIPEAHQRWAD HP/LSLVTGPFPGSMPEKTPLA\ AGEGAGQHGA LGKAGRGTSQ MPGMPGEGQHGLRRIEDFGAG LLQKDTGEI*RRSDRPHVFTAC YLEGEGGMLFQKQGGFFMGTL PQG*RODKGPQRSFLADQA*RP QGLRTKESTESAEEERLPQQRK EEINQRLYSKEGRPRPNKNLPL GSVHTWPLVIT
9312	39680	A	9372	1	2229	
9313	39681	A	9373	3	1560	SGPNSLKFYDWGETVPQWPPIF GLSPAFGFPLCFPRGLGETIFSSR PHIR/RNYPELQKRLNGWLSAA LKTARILTVCAVVMLLLSAWG LFDWFNWLQNGAGQKNP*NIP D/LRIRNSILFL/LSAVGWTVLA\ SLIENRLASDHGRPLPSARTR TLTLFRNALAVIISTITIMIVLS EIGVNIAPLAGAGALGLAISGF SQTLYKDIHTGVFIQFENGMTG DLVTIGPLTGTVERMSIRSVGV RQDTGAYHIIPWSSITTFANFV RGIGSVGANVDVDRHEDADKA NQALRDAVEDDETRFTSESPIL RCCQREGGLKAVVQILLSHGR NGLPGEPASSQGLSASSTPVF HLALQIDSAPDNIDWVEMLFNK NMVTERLQNMVMLEQCFSDSS SLYRFLTYSYLLAFNVWLLAP VTLCYDWQVGSIPLVETIWD RNLATIFLAVVMALLSLHCLAA FKSRVTASIPGCIKAHAVENVL TTKSKTRIYPEVVVQSGLQKQK GKGSVMFIEAAGL

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9314	39682	A	9374	3	276	VRQYR/LGN/MHQQRMAEMID ARQQAFGEAGACWGGCPKHR VMLDASGKPGNDLCAGYQRD VRHLPRYLKAMADLLAIGRPA SDIMHAHLV
9315	39683	A	9375	102	916	RSLLAIFNHW*IKRDLGKFLVW NIK W/AFKFCRSAGQTSGRSVI VEHNGEIIYACDHVYPQYRLG NMHRQRMAEMIDSRQQAFGE DKFKQLPAQCRSCNVLKACWG GCPKHRFMLDASGKPGLNLYC AGYQRYRHLPPYLKAMADLL AHGRPASDIMHAHKVFKRGT ACSGFQKGGPLFRSTGYCPTL RKKAPCPKTGLLGKWTQRR NSSGKSCAKRRGDPLLENRFN GSRVQRKPQWNSCTGHPENN FPNYGGTYPQRMWPL
9316	39684	A	9376	338	1155	SIFISIGNLAANDLSPSRIARLQK ILHSYVPEIRDGNQVRVTSWD GRKWGELEGDTYDRVLVDVPC TTDRHSLHEEENNIFKRSRKKE RQILPVLQVQLLAAGLLATKPG GHVVYSTCSLSHLQNEYVVQG AIELLPINTASRYRWKI*LTSEG FSWTHFVSSQSCPGWGAGNTK TSLANLALCTSAKCVGWT*YPP QSLKQEYQRYVSVGCTRNWKL GPVAMHSRSLHPVRVFLQFS AIRSRRFVLLSNCGASAWFPT SLINYPYIS
9317	39685	C	9377	157	453	
9318	39686	A	9378	486	1195	ARPQQYEQVPGKAEASEWERG SSAPTGPGGHAAAAGGVGGG EGSPPALHGRGARAG/GAGICM GLRQQLNR*AMDLTGAGGPAP AGAAGAVARGGGRHQGPAG GRGRGLGFAAGTAEPGAPHR PLQRALPPIRREPGERHRAPRAG AAPQCGSARPRQPRAPQSLRAG ALPEAHQGGQGPARTHPAEPGP AARRAQSLCRHWD*GRGRPG PPDALRGGAASDFRLSARTPICR
9319	39687	A	9379	10	1278	

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9320	39688	A	9380	1	1305	MECVVCVKEKEREKEGKEEEEE EDEAVAERGGKGERRGERRGE RKREKETYTEKNRYRDTKRDR DRERKEPYEIPSSLIHGDPKDE LDRNLALKQVKTYWVIQFSKSI EVIEKRMAVLNEQVKEAEGSS AEYKKEIEELKELLPEITEKTED AKESQTTGNVAELALKATLGG GSSVS/SIASRKPTDGASSSNCV TDISHFVRKKRPPEEQSPWKDD AKKVKQLEVNNGSGDAVPSG NEVLNMEEEAENRVESRAAV EGTVEAGATAESTAYMYDIPA MYQENTAVSKTDEVSDLIHLK AQTDLAQERAGKRASPDGG SAEGQAQSDRQEATKQRHKQE AGDRHYDKQMLEYQGAHEL SSREKRKEKKKKPPHRLPPTP VALHGAKRRLTKRLFNASPN KPKGHSTQFSVMSQAEQQPVL
9321	39689	A	9381	67	458	WDMANSCKDVTGPDDEESFLY FAYGSNLLTERIHLRNPAAFFC VARLQQEGVKSGMYVIVVK VATQEGKEITCRSYLMTNYESA PPSPQYKKIICMGAKENGLPLE YQEKLLKAIENPTYTGKGSEENE
9322	39690	A	9382	139	710	WDMANSCKDVTGPDDEESFLY FAYGSNLLTERIHLRNPAAFFC VARLQDFKLDGNSQGVKTSQT WHGGIATIFQSPGDEVWGVVW KMNKSNLNSLDEQEGVKSGMY VIVVKVATQEGKEITCRSYLM TNYESAPPSQYKKIICMGAKE NGLPLEYQEKLLKAIENPTYTGK VSEEDIIKKGETQTL
9323	39691	A	9383	1	731	MANSCKDVTGPDDEESFLYFA YGSNLLTERIHLRNPAAFFCV ARLQLLIESPRMSRLAKFWPRT HAVILSKTERTSFWPLKPKQWE SGSDTPYSQTRKDFKLDGNSQ GKTSQTWHGGIATIFQSPGDEV WGVVWKMKNLNSLDEQEG VKSGMYVIVVKVATQEGKEIT CRSYLMTNYESAPPSQYKKIIC MGAKENGRLKYQEKLLKAIEN PTYTGKVSEEDIIKKGGTTKL
9324	39692	A	9384	41	333	MFCNTDLGT/LCCTDVVARGLD IPQVNWVIVHDHPDDPKYIHR VVPFVVDLNVNGNEGKQKKRG GGGGFDYQKIKKVEKSKIFKHI SKKSSDSRQLSH

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9325	39693	A	9385	3	1852	SKQKPMNVGLSETQNGGMSQE AVGNIKVTKSPQKSVLTNGEA AMQSSNSESKKKKKKRKMV NDAEPDTKKAKTENKKGSEEE SAETTKETENNVEKPDNDEDES EVPSLPLGLTGAFEDTSFASLCN LVNENTLKAIKEMGFTNMTEIQ HKSIRPLEGRDLLAAAKTGSG KTLAFLIPAVELIVKLRFMPRNG TGVILISPTRELAMQTFGVLKE LMTIHIVHTYGLIMGGSNRSAE AQLGNGINIIVATPGRLLDHM QNTPGFMYKNLQCLVIDEADRI LDVGFEELKQIHKLLPTRRQTM LFSATQTRKVEDLARISLKKKEPL YVGVDDEKANATVDGLEQGY VVCPEKRFLLFTFLKKNRKK KLMVFFSSCMVVKYHYELLNYI DLPVLAIHGKQKQNKRTTTFQ FCNADSGTLLCTDVAARGLDIP EVDWIVQYDPPDDPKEYIHRVG RTARGVLNRRGHALLILRPEELG FLRYLKQSKVPLSEDFSWSKIS DIQSQLEKLEIKNYFLHKSA/Q EAYKSYIRAYDSHSLKQIFNVN NLNLPQVALSFGFKVPPFVDLN VNSNEGKQKKRGGGGGFGYQ KTKKVEKSKIFKHISKSSDSRQ

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9326	39694	A	9386	1	2703	MAQQATLCSMKGCMRALVAQ LKSESEDLQQTVAQKREVPKSK VPAAEKRESGPKQAAVNAAVQ RVQVLPDVTLLHFATESTPDG FSCSSSLSALSDEPFQIKDVEL RIMPPVQENDNGNETESEQPEE SNENQDKVEKPDSEKDLLDDSD DDDDIEILECIISAMPTKSSRK AKKLAQTASKLPPPVARKPSQL PVYKLLPAQNRLQAQKHVSFTF GDDVPRVYCVGTPINFSTATS LSDLTIESPPNELATGD/GVRA/S IQSGKSHKPFVRVK/IMDQVQQ ASSTSSGANKNQVDTKKKKPTS PVKMPQNTYRTRLPNEDR VRGSFALDSPHHYPIEGTPYCF SRNDSLSSLDFFFFFFDLSREK AELRKGESKDSKAEKVTCPREP NSSQQAASKSQASIKHPANRAQ SKPVLQKQPTFPQSSKDGPDRG AATDEKLQNFIAIENTPVCFSRN SSLSLSDIDQENNNNNKESEPIK EAEPANSQGEPSRQLSQQNLTK QASLSKNASSIPRESASKGLNQ MSNNGSGNKKVELSRMSSTKS SGSESDRSERPALVRQSTFIKEA PSPTLRKLEESASFESLSPSSRP DSPTRSQAQTPVLSPLPDMSL THPSVQAESEKAKSEDERHVS SMPAPRQMKENQVPTKGTWR KIKESDISPTGMASQASSGAAS GAESKPLIYQMAPPVSKTEDV
9327	39695	A	9387	2	193	QSSE*NIQGPCNVWSSR*RWER SKGRRLSSASRPLSALSTLRFT SVSQHAAKRVVVRPQGG
9328	39696	A	9388	395	761	SMQKPRPIAHRQRCRAAMAA/ GQQPQIPITITGTGVVYPGAITM ATTTSPQMSTDCSSSTASPEPS LPVIQSTYGMKTDGGSLAGNQ MINGEDEMAMYDDYEDDPKS DYSENEAPEAVSAN
9329	39697	B	9389	1	477	

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9330	39698	A	9390	167	890	LSGARSSQGRLPWGRGDAVSTSTSRNRNRTGASDERNNHEPGKN SPYLQAQVVRIGGKGFTARRKKK VVHRTATA\DDKKLQFSLKKL GVNHMSGIEVNM\FTNQGTSG STFNPN*KVQAISWAANTFHL PGPCWRPKPADKKWL.PQPSL PSL.GAG*S*LRFKGLARSFLPP NNPVDGKATHLPTG\KDDDDA KVPRSLWRILMRLPKNEGKLEL RSTSR*NLEEVTVGSRVFKIMT AF
9331	39699	A	9391	2	315	GAASLLRAGPGSSGSDP\PLSSR FVERRGALYRSPMNQENPPYP GPGPTAPYPQYQGWQGGPQEP KTTVYVVEDQRRDELGPSTCLT ACWTALCCCLWDMLT
9332	39700	A	9392	263	680	LLLPAVLTSAPLPPAGLATCP RLAQLGIGRAAPQKRSRPRRNP EASRGRPPDGVWRAPLR/VPPT PRETEPQRRGDPGLRNPCLSQ SPGAPQFSGP/PPGSPGTRPVRA *SPPGPSWVGPGPLHLTSLPNRL DNGRV
9333	39701	A	9393	2	537	SGARLLTTCSETGAASLLRAGP GSSGSDP\PLSSRFVESRGALYR SPMNQENPPYPGPGPTAPYPP YPPQPMGPGPIGGPYPPPGGY YPRIPTVRLAGWTSGLLKTTV LLWVGRPKKEEMKLGTHLPSQ AGTGLCLLLSLGTWFTLTRTRP RPFLFLASSAANLLTGVCPIHLF
9334	39702	A	9394	3	470	PKAKKEAPAPKAEAKAKALK AKKAVLKGVHNHT\QKKKIHTP LTFQRPKSLRLRQPKYPRKSA PRRNKLDHYAIKFP.LTTESAM KKIEDNNTLVFIVDVKANKHQI KQAVQKLYDIDVAKVNTLIRPD GEKKAYVRLAPDYDALDVAN KIGII

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9335	39703	A	9395	1	1144	MLYQVLMVDTCGRGEGAFLK YRK PACPTALGFMFPRSHGLTA DTVLVSSLRWFLWRRLLLLL LLLLNLPLQKAVHRKATPESAI ADCSGRDCAPWVKFAMLELH SFKCPAGEYWSKDVCCNKCSA GTFVKAPCEIPTQGQCEKCHP GTFTEKDNLYDACILCSTCDKG DFYGGKTAVHEALCDNIDTRT VMEEMRALVSQCNLYMAARK AERRRPNRALLENIAMYLTHM LKIFGAIEEESPLGFVPVGGPGTN LNPIENGGMDFLTTSVSLRKT HRVSNQNSVCRSVSYWKPKC TFCSLTHITYIRYLELRLTLESTV MPYLQVLSEFREGVRKIAREKK VLEVLQLSDALRVTSCLSLGSG LKTMKPECLLF
9336	39704	A	9396	1	639	MDGDEKTSFICAVHNGIFREW QTGTCSPIKKGQLLRVECHGK IKAQGGQMYIKAALFRAKTW NQPKCPSMIDWIKKMWWHIY/ TCEYYTAIKKKIMSSVETWMEL EAHLSKLTQEQQSKFRFTSLYSS RVFQRTQDVPYHNKLNEADK PTTNKKGLILNLRVNTPIGRK NTGKLSAIEKLLKRPKRKHLS KIYTLKNDSDLIKDKNI
9337	39705	B	9397	1	825	
9338	39706	A	9398	2	285	HEENRPFVCEH/AGCGKT/FAN KPSLTSDAVVH/DPGKKMKML KVKKSRKESRLASHLSGYIPPK RKQGGQLSLCQNGESPNCVED KMLSAPVPLTLG
9339	39707	A	9399	2003	2344	PFVGVFWLFFFSVFVTFVPP EYYVLPAPPPHRSVFLVFGRV VFFFPLPC/CDFRSRLTPPFVCAP PAPPPLPFVSVCPVPSLSCGDVC AADKKNKKKFLNTRWKKKT
9340	39708	B	9400	3	113	
9341	39709	C	9401	48	182	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9342	39710	A	9402	2	752	VWWNSRRRPVKRRRLASPSY ACSGRSAGFLDNCAMCAARLA AAAAAQSVYAFSARPLAGGEP VSLGSLRGKVLLIENVASL*GTT VRDYTQMNELQRRLLGPRGLVV LGFPNCNQFGHQENAKNEEILNS LKYVRPGGGIEPNFIMLFHKSE VNAGAGHPLFAFLREALPAPIS DDATALMTDPKLITWSPV/CRK DPGKIKFFLGPPGNFFKFLGGP CTVLP LRRYSRRF/QTIDIEPDIE ALLSQGPSCA
9343	39711	A	9403	1	1128	ARCDHPTAFVVCYRFYPWPAG HVDAAVH*YVCARATDSFIAV WRTLLKGTIIILHESSIHDNFNLT SQKLWAFVFNKAPRTSGIICWP EIQSAFQGGNLYFTIPIVDRNS TNYVLRQVRLLGN
9344	39712	A	9404	7	378	
9345	39713	A	9405	318	616	DPAGFPGCWKPLFYDLHYRSQ LHQLCLQAGRTPGQFGHQHRF WWQFCT*EIPALQPLPEGNLV SCNEQSF GAPATGTNPGEVHP AALGTWLYLLPPC
9346	39714	A	9406	1	145	MEYYAVIKKDEFMSFAGTWM KLETHLSKLTQE/QKFTPLMFSL ISGS

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9347	39715	A	9407	1	2052	MVLVVAVVVVVLVAVIVV VVVVVAAVVVGAVVVVVVV MVVVVVVVVEEDNQHKTGA INNNNTAKNPQSPFHSPTST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQWQTKKK YLIYLKKHSGVKNIPRNPTYEG CEGPFQGGELQTTAQQNGGHHK QTEDHSMMLDRKNQYCENGH TAQAVPNPYTLLSQIPDAEWF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTVLPQGF NSPHLFGQALAQDLSQFSYLD LVLRVMDLLATHSETLCHQ ATQALLNFLATCGYKVKPKA QLCSQQVKYLGLKLSKGRTRL EERIQPILGYPHPKTLKQLTAF GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPAEAVAF QALKKALTHAPVLSLPVGGNFS LYVTEKITGIALGVLT/PGTSAQ LAELIALTRAPELGEGKRVNIY ANSIGREREFLLSKGTLVKHQE AIKRLLLAVQKPKAVLHWCW GHQKGEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLIIHCCLPPPPQ TRCWLPSLRIRQGVCCIPDPAR AITLTA WPKIPFLGIRKAKNPRS EKTRLATILEAACCHFGSGPPPS WELWEQGPVTVQTHILRSHL
9348	39716	A	9408	2	350	YKVSFKPAQLCSQQVKYLWLK LSKGRTRALSEERIQPIALYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9349	39717	A	9409	1	749	MNQSDQEMTGAFVHMKSYTG LISGVAVKMERHIYQDRRIAIEK EFNSCRTGCMGDWSFTITQIRL LENTGIRVFKDNLVEAEWFTV LDLMDAFFCIPVHPDSQFLFAFE DPSNPASQLTWTVLPQRFKNP HLFGQALAQDLSQFSYLDLTLV RYMDDLLAAVSETLCHQATE ALLNFLATCGYKVKPKAQLCS QQVKYLGLKLSKGRDLTTFPL VNEEKIE/P*LSTSNCSKLRCRSG TSRGS LG
9350	39718	A	9410	118	174	
9351	39719	A	9411	577	3018	

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9352	39720	A	9412	310	1964	TFRLTEPTQMRRNQKTNPHNM TKQGSSIPPQKNHTSSPAMDPN QEEIPDLPEKNSGVNKIIPRNPT YEGCEGPFQGELQTTAQQKNG GHKQTEDHSMMLDRKNQYCE NGHTAQAVPNPYTLI.SQIPEDA EWFTVLDPKHAVFCIPVHPDSQ FLFAFEDPSNPMSQLIWTVLPQ GFRNSPHLFGQALAQDLSQFSY LDTLVLRVMDLLATHSETLC HQATQALLNFLATCGYKVSKE KAQLCSQQVKYLGKLSKGTR TLSEERIQPIGYPHPKTLKQLT AFLGITGFCQIWPSILTAKGDL WLSDNHLLKYQVLLLEGVPLQ LRTCATLNPATFLPDNEEKIEH NCQQVIAQTYATRGLLEVLPT DPDLNLYTDGSSFVQKGLQKA GYAVVSDNGILESNPFTPGTST QLAELVALTWALEFGEGKRVN INTGSKYAYLVLHAHAIWRER EFLTSEGTPKHQEAIRRLLLV QKPEEVAVLHCWGHKPKGERE IEGNCQADIEAKRASRDPPLE MLIERHLVWGNPLWETNPQYS
9353	39721	A	9413	3	370	RCCPCPRVHHMHISARAIRPPP RPPFLLLLVFLFQTGPCSHPGC SPPPAHSPSCSSWPQWPG/CSSPV SVLLAKPAACLIAAAVSANPRL LFKPCCRTASNWAHRQVTLQC WSELSSCFWPE
9354	39722	A	9414	191	1375	EWPEGGGRYSSVPSAVHHART CLAAELSGTSRQPEPRALPPETG VATAEAESNQPAAISK/PNGQ GAPLQR/RSRPLSPSPGAAQVPA LPMQDMSEGGSSPSPGGHIWL ASLTPCSLALWNSCCQSPGSQP RGRDEGDCLVRATEPSATGPDP RRTRLCSISASLVVRNTDPGIS DRRPGISDRRPGTSDRRPGTSDR RPGISDRRPGTSDRRPGTSDRRP GTSDRRPGTSDRRPGISDRRPGT SDRRPGISDRRPGTSDRRPGISD RRPGTSDRRPGTSDRRPGISRLP RDWIPAAAASRENSNSADARN RCSSPSRKCCQPTPSHRMRGSAG SVGSSAGHTAGGTGLTPSRCS QALQVFPVAVLGKRGFLSWERS LKQRDIRGPDFSSTALI
9355	39723	A	9415	3	523	

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9356	39724	A	9416	1	846	MLCDFQDGSTSRHVNPESSNPS PQPWSEDDQGASATVPCA KSV MHR LKKFTIEYLVMKFLKAVS HAIQMEMLAPKGPSPIPEDASV KEENICRAFSDALLYKIEDIDNK DWN NPQLCSDY/VKDNAYTSF QIQEMETILKELKFEVGGPLPL HFLRQASKAGKADVEQHTLAK YLMELTLIDYDMMHYHPSKAA TAASCLSQVLGQGWNLKQQ CYTGYTQNEVLEVMQHVAKN VLKVNENLTGFIAIKNKYASNK FLKISMIPQLNSKAIKDLAFLPM GGS
9357	39725	A	9417	72	1340	CPPFSVRVPPWAGLALLPSPSL MALLRRPTVSSDENIDTGVNS KVKSHVTIRRTVLEEIGNRVTT RAAQVAKKAQNTKVPVQPTKT TNV NKQLKPTASVKPVQMEKL APKGPSPTEPDVSMKEENLCQA FSDALLCKIEDIDNEDWENPQL CSDYVVKDIYQYLRLQEV LQSIN PHFLDGRDINGRMRILVDWL VQVHSKFRLLQETLYMVCVGIM DRFLQVQPVSRKKLQLVGITAL LLAPKYEKMFSPNIEDFVYITD NAYPSIQIREMETLILKELKFEL GRPLPLHFLRRASKAGEVDVEQ HTLAKYLMELTLIDYDMVHY HPISKVAAAASCLSQVLGQGWK WNLKQYYHKDTQENEVLEV MQHMAKNVVKVNENLTGFIAI KNKYASSKLLKISMIPQLNSKA VKDLASPLIGRS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
9358	39726	A	9418	I	1875	EPEKQQLYDIPASPKKAGLHPP DSQASGQGVPLISVTTLRGGY STLPNPQKSEWIYDTPVSPGKA SVRNTPLTSAEESRPHALPSSS STFYNNPPSGRSRLTPQLNNNV MQKKLSLPEIPSYGFLVPRGTFP LDEDVSYKVPSSFLIPRVEQQN TKPNYDIPKATSSVSQAGKELE KAKEVSENSAGQIPHGSPDGQ/ RSPSPEDRLSGSSSDSRASIVSS CSTTSTDSSSSSEESAKELSL DLDVAKETVMALQHKVVSVA GLMLFVSRKWRFRDYLEANID AIHRSTDHIEESVREFLDFARGV HGTACNLTDNLQNRIRDQMQ TISNSYRILLETKESLDNRNWPL EVLVTDVSNPDDLERFVMV ARMLPEDIKRFASIVANGRLLF KRNCEKEETVQLTPNAEFKCEK YIQPPQRETESHQKSTPSTKQRE DEHSELKKNRANICGQTLPN LEEKDKPILEQRLDENKDLGTM NPGLIPQPSQQTPERKPRLSE HCLRYFGALFKAISAFHGLSSS QPAEHTQSKLVIMVGQKLVDT LCMETQERDVRNEILRGSSSLC SLLKDVALATKNAVLTYPSPAA LGHLQAEAEKLEQHTQRFRGT

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
9359	39727	A	9419	1	2013	MGLKSWGGMGLGTAFGKGLR GEKAWCVSGRYHWRYSQWSG TLTQGPVWVRVHSLSDRVYDV PTQHRGPVVLKEPEKQQLYDIP ASPKKAGLHPPDSQASGGVPL ISVTTLRRGGYSTLPNPQKSEWI YDTPVSPGKASVRNTPLTSFAE ESRPHALPSSSTFYNNPSSGRSR SLTPQLNNNPMQKKLSLPEIPS YGFLVPRGTFPLDEDVSYKVPS SFLIPRVEQQNTKPNYDIPKAT SSVSQAGKELEKAKEVSSENSAG IQIPHGSPDGG/RSPPSEPDRLSG SSSDSRASIVSSCTTSTDSSSS SSEESAKELSLDLDAKETVMA LQHKVSVSSVAGLMLFVSRKWR FRDYLEANIDAIHRSTDHIEESV REFLDFARGVHGTA CNLTDNL QNRIRDQMOTISNSYRILLETKE SLDNRNWPLEVLVTDSVQNSP DDLRFVMMVARMLPEDIKRFAS IVIANGRLLFKRNCCEETVQL TPNAEFKCEKYIQQORETESH QKSTPSTKQREDEHSSSELLKKN RANICGQNPGLIPQSSQQTPE RKPRLSEHCRLYFGALFKAISAF HGSLSSQPAEIIQSKLVIMVG QKLVDTLCMETQERDVRNEILR GSSHLCSLLKDV ALATKNAVLT YPSPAALGHLQAEAEKLEQHTR
9360	39728	A	9420	3	645	DFHTN/K/RVCEEIPILSKKLHN RRAGCVTHLTNQIRGPPVRGISI KLQEEEEKERRDNYVPKVSALD QEIIIEVDPTKEMKLKLLDFGSL NLQQQKATRVYAVVQISAPMF LLWALPLSVAPLITDFKMFVTT SYLISLFLIINSSANPIYFFVGS L RKRLKESLRVILQRALADKPE VGRNKAAGIDPMEQPHSTQH VENLLPREHRVDVET
9361	39729	A	9421	312	694	LTPAPRKNVTEKYVMCLGNDF HTN/K/RVCEEIPILSKKLHNRR AGCVTHLTNQIRGPPVRGISIKL QEEEEKERRDNYVPKVSALDQEI IEVDPTKEMKLKLLDFGSLSNL QVTRPTVGMNFKMPRGAV
9362	39730	A	9422	3	383	

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9363	39731	A	9423	304	1862	RMLEATSKMRKGVPSIQ/SSQ GNSYTLIPSAKSDNLSDDSHSEI SSRSSIVNCSVDMSAALQDE RCSSQALAVPESTGALEKTEHA SGIGDHSQHGPWTLKPSLIK CLAVSSSVSNEEISQEHIIIEAAD SGSWEVGTSCSSSHDNFQSLP NPKSWDFLNSYRHTLDDPIAE VEPTDSEPYSCSKSCSRTCQC KGSLEKSWTSSSLSDTYEPN YGTVKRRVLESTPAESSEGLDP KDATDPVYKTVTSSTEKGLIVY CVTSPKKDDRYREPPPTPPGYL GISLADLKEGPHTHLKPPDYSV AVQRKMMHNSLSRLPPASLSS NLVACVPSKIVTQQRHNLQPF HPKLGDVTDADSEADATLGNK CKLLYMSDVRNPVPAVKDVLV QKYTSFNFFHPQEALDRRREEL ALPEGASGEACLSTRSLKRSV QALAQQTSHRNFLPEKQPFSAQ AAGILHGSINHNRGPCLLEG KMMTGVLRYAYLLCIAYSRDLI VDEQIMNGLRKA

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9364	39732	A	9424	1	1335	MTFKNPKYPFVSNLAKQKGMS VIKVNGLQKQSNPNRTTNGPDP SGMKVWVSPQGKNPQPTVEVLA EGKGNTWVVEEDTRNFGFI QKHTDIGIKYDSSTGIYDLDFN VVLDRASEEGITLTAALAADR ETPSENCLPSPVNPTAQEGEIGH PDPHIVLEQEDPTTAPHPRQLCQ QQQCQRPLCRLQPVVPHIVDLT PLTEIGSEEPVVGELNFKHIRFEV SEDNMTFDASDQGPFFENYWQ LVL SATPGDVTWNGALGLHTP KSSSPDTCASQAQSQCWELSPG GRRIGTLLLPQESGASWLPGV TSSLAARVIMNCGDKATPRN GGVRTLLKLLSLPLSKAGGKVL YGEINPEQEVQASLSFAALLES YGIFMETEFLVACLISQGGQLR NQDFSSSIYSLAPGLDPSSVRA GAQRTAPPWGISPRSC/PVIKVN GKLLQSNPNRTTNGPDPGSMK VWVSPQGNPQPTVEVLAEGKG NTEWVVEEDTRNFGFIQKHT DIGIKYDSSTGIYDLDFNVVLDR RASEEGITLTAALAADRETPSE NCLPSPVNPTAQEGEIGHDPHIV VLEQEDPTTAPHPRQLCQQQQC QRPLCRLQPVVPHIVDLTPLTEI GSEEPVVGELNFKHIRFEVSEDN MTFDASDQGPFFENYWQLVLS ATPGDVTWNGALGLHTPKSSSP DTCASQAQSQCWELSPGGRRIG
9365	39733	A	9425	56	235	
9366	39734	A	9426	1	515	
9367	39735	A	9427	138	830	AWAQLPSALGSTRVSPPPSARS QPPWRRRHK/CLLETEPLQGTD EDAVASADFSMLESSEEKELK AELVQLEDEITTLRQVLSA/KER HLVEIKQKGLMNLMLNELK/QNF SKSWHDMQTTTAYKRTHDTL SHAGQKATAAFSNVGTAKSKKF GDMSYSIRHSISMAMPARNSTPF KSFEERVETTTSKTKVGGTN PNGGSFEVLSTAHASASQLA GGSRRTKEEELQC
9368	39736	A	9428	3	381	LLETEPLQGTDEDALASADFS MLYEEKEEVKAELVQLEDEIT TLRQVLSAKERHLVEIKQKLG MNLMLNELKQNFSSKSWHDMQT TTAYKKTHTLTHAGQKATAA FSNVGTAKSKFGDMRRK

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9369	39737	B	9429	79	426	
9370	39738	A	9430	1	570	
9371	39739	A	9431	1	1677	MLESVNVRLLEDLITGPCWEAG WNAGYAFLVVAVEDFTIGKLF DKLEGTKLCLKNALPRVITQTE SHRQRLLEAAAAWHSWLKIV QKMKAVYHILNMCNIDVTQCC VIAEIWFVPADATRIKRALEQG MELSGSSMAPIMTTVQSKTAPP TFNRTNKFTAGFQNIVDAYGV GSYREINPAPYTIITFPFLFAVMF GDCGHGTVMLLAALWMILNER RLLSQKTDNEIWNTEFFHGRYLI LLMGIFSIYTGLIYNDGFSKSLNI FGSSWSVQPMFRNGTWKTGTH DPHLAVLFKMGHVEGRDCVLR IVLAKIGYRNGFLRKIWNLASN KLTFLNSYKMKMSVILGIVQM VFGVILSLFNHIFRRTLNIILQF IPEMIFILCLFGYLVFMIIFKWCC FDVHVVSQHAPSILIHFINMFLFN YSDSSNAPLYKHQNFNGDVFV HQAHTIEYCLGCSINTASYLRL WALSLAHAQLSEVLWTMVMN SGLQTRGWGGIVGVFIIFAVFA VLTVAILLIMEGLSAFLHALRL HWWFEQNKFYVGDGYKFSFSS FKHILDGTAAE
9372	39740	A	9432	3	933	GTWFPVSSAASIYAGTGGLGSKI SMSCSTSFWGGLGSGGLATEM AGGLAEMGGIQNEKETMQSLN DHLDYLDVRNLETENWRLES KIQEYLEKRPHVRDWHGYFKTI KELRAQIFANTVDNVHILQIDN AQSSMRQELAMRQSVESNIHG LCKVIDDTNVTLLQLETEMGAL KEELLMMKKNHHEEVKGLQVQ IANSGLAVEVDAPKSQVLAKM EQLNRILLYLESKLAQNWAEQ QRKVQYKDLLNIRVKLEAEIA TYRRLLEDSEGLNLGDALDSSN SMQTIQKTTTRQIVDSKVVSSEIS DTKVLRH
9373	39741	A	9433	3	698	

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9374	39742	A	9434	2	479	PRVRESTTVVTTQSAEVGAAET TLTELRRTVQSLIEDLDSMRNL KASLENSLREVEARYALQMEQ LNGILLHLESELAQTRAEGQRQ AQEYEALLNIKVKLEAIEA/TTY RRLEDEDGEDFNLDALDSSNS MQTIQKTTTTRRIVDGGKVVSETN DTKVLRLH
9375	39743	A	9435	1	618	AEHLKPLPADKQIETGPFL VSHLPFFDCLGSPVFTPIKADIS GNITKIKAGYDTNQPRFRTLKT ILEGEKEMYGAKGPKVGATLA LMWLKRGRLFIQVFLQSCDGE RDEHNPNLRVNAVATKAYEMAL KKYHGWIVQKIFQAALYAAPY KSDFLKALSQGNVTEEECLEK IRLFLVNYTATIDVIYEMYTQM NAELNYKV
9376	39744	A	9436	1	1569	
9377	39745	A	9437	211	368	ERNLSQLQWDNPTTPATRRPS HSSLRGEHAQ*GLLSFFERLST LSRFMP
9378	39746	A	9438	1435	1703	
9379	39747	A	9439	1	913	MKNYNCWRRVFLFVVTPIPMG HIKHQQGPNKQGRGQKRDQER MRKENRGHRKGCTWCGGGTE GTGWGKYEKSEVERGLVRYER KRRAYSGIQYAAAAALPTVYN QNLLTQSSIGAAGSQKEACAY AVMSLASRAPVYVSFDSEKAG DREVQRTMLELLNQLDGFQPN TQVKVIAATNRVDILDPALLRS GRIDRKIEFPMPNEEARVARIMQ IHSRKMNVSTDTTLVALQMAL NVYNGKQAPYASCHIFELYQE DNGFLLLEHTGFVSYDNPVSAQ AAIQSMNGFGIGMKRLKVQLK RSKNDSEKPY
9380	39748	A	9440	3	438	
9381	39749	A	9441	1	247	ATAAIDSDDSGSRQSEWFKWK GFTILDAIKNIYDSWEEVKMST LTEVWKKLPIILMDSFDFNEE VTVDVWECTVLQTI

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9382	39750	A	9442	93	726	TSLGLSLCPRQCKRCPHLSLQQ EEDPANLEVDHDFQDKVWP HLALRVPAFETLKVQSAWAGY YDYNTFDQNGVVGPHPLVVN MYFATAFSGHGLQQAPEGIGRA VAEMVLKGRFQTIDLSPLFLTR FYLGEKIQENNIILRHVCSGIG LPLACNPWLCLKSLVCLPIFP KVLCPGLLSPPVSSSSQAGHW HPIWAGQGTGSEAEQG
9383	39751	A	9443	1	849	MSGALDVLQMKEEDVLKFHA AGTHLGGTNLDFQMEQYIYKR KSDGIYIINLKRTWEKFLAAR AVVAIENPADVSVISSGNTGQR AVLKFAAATGATPIAGHFTPGT FTNQIAAFREPRLLVVTDPRA DHQPLTESSYVNLPTIALCNTDS PLRYVD/ICNNKGAHS/DPEEIE KEEQAAA EKA VTKEEFQGEWT APAEFTATQPEVADLSEGVQV PSVPIQFPPTDDWSTQPATENW SAAPTAQATEWKMQQQSTILE AESSPHQTPNLPAWRSRTSQPPE
9384	39752	A	9444	1	1575	
9385	39753	A	9445	1	2325	
9386	39754	A	9446	1	1149	
9387	39755	A	9447	85	1041	REIVTMSGALDVLQMKEEDVL KFLAAIGTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWEKL LLAAVRAIVAIENPADVSVISSQE ILGQKGAESFAAATGATPICW ARFTPWNLSTLTIQGSPPSGEPR AFLLVTDPOGLNHQPSHGGNL NV*PTLPLALVNP/SPLRRYVD IAIPCNNQGSSSLQWGLMWW/M LASGSFCAMRGTSIREHPWEV MPDLYFYRDPPEIEKEEPPGCC RSQVTKEEFQGEWTAPAEFTV VTQPEVADWSEGVQVPSVPIQ QFP/TTEDWSAQPATDWSAAP TAQATEWVGATTDWS

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9388	39756	A	9448	1	762	MGKVKVGVNGFGCIGRLVIRT ACNSGKVDIIAINDPFIDLSYMV YMFQYDPTHGKFGHTVKAENG KLIVINGNPITIFQEPDPSKIKWG DAGTEYVMESTGIFTMENAG AHLQWGAKRPQGLQNIIPATT/ GA AKAVRKVIPELNGKLTGMA LRVPTANVSVDLTYHLEKPA KYDDIKKVKVQASEGPLKGILG YTG HQVVSSDFNSDTHSSTFNA GAGTALNDHFVKLISWYDNEF GYNNRVVDLMAHMASKE
9389	39757	A	9449	93	660	DTMGKVKVGVNGFGRIGRLVT RAVAFNSGKVDIIVAINDPFIDL YMVYMFQYDSTHGKFGHTVK AENGKLVINGNPITIFQEPDPSK IKWGDAGAEIYVVESTGIVFTT MEK/ALGAHLQGGSQKHSSL APSCLMPPMFVMGVNHEKDD NSLKHISNASCCTTNCLAPLAK/ VIHDTLVSGEGLKDHRLAP
9390	39758	C	9450	554	715	
9391	39759	A	9451	193	472	RRVGWVRRPQFQQSRCSHGPN QGSAPWLNPTGAFGKETDLLA/ DDSLVSIFGKRRL/KRFSMVG/D RMASKNALNAQPDGPGLTCSL APNIISQL
9392	39760	A	9452	1	864	GTRMGLAGVCLRRSAGIYLV GGAG/WSVLAPRAAAARRCSE GEWASGGVRSFSRAAAAMAPI KVGDAIPAVEVIFEGEPGNKVK PGKSLFKGKKGVLFGVPGGPPP LGCSKTHLAKGLWEQG*RLCK AKGSRVVALF*VVNDALCDW AQWQAPQGGKARFGLLAESP LGPFGLVETDLL/LDES LVSHLL GIRRLK/RFS/MVVQDGI V KAL/ NVEPDGTGLHLAAWAPNIIFTA LEALGPDLLPPPPYSSPCPALC LGPLQFGNVGQISAINTLWVLR PKQKKKKKS
9393	39761	A	9453	1	239	QCCSGGTHGNPAIGDRIMQKQI LPWAPAQMKIRFMAPPERKYS VWIAAPILASLSTSSRMWISKQE YDESGPSIVHRKCF

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9394	39762	A	9454	2	801	ASAPRAQSLAFADPPPVHTRRQ LTMDDDIAALVVDNGSGMCKA GFAGDDAPRAVFPISVGRPRHQ GVMVGMGQKDSYVGDEAQSK RGILTLKYPIEHGIVTNWDDME KIWHHTFYNELRVAPEEHPVLL TEAPLNPKANREKMTQIMFETF NTPAMYVAIQAVLSLYASGRTT GIVMDSGDGVTHTVPIYEGYAL PHAILRLDLAGRDLTDYLMKIL TERGYSFTTTAEREIVRDIK/EE AVLRRPGLRARDGHG/VASSSL EKSYELPDGQVITIGNERFRCPE ALFQPSFLG/MESCGIHETTFNSI MKCDVDIRKDLYANTVLSGGT HQFPLPCRPGC*KKITALEPIAT MKIRIIA/VPEAQSTPLWNRGAP ILASLVHLPKMWQKRSREYD ESGPLPFVHRKICFQLLPGEELR
9395	39763	A	9455	3	108	
9396	39764	A	9456	1	1430	MKFLIFAFFGGVHLLSLCSGKAI CKNGISKRTFEEIKEEIASCGDV AKAIINLA VYGKAQNRSYERLA LLVDVTGPRLSGSKNLEKAIQI MYQNLQQDGLKVVHLEPVRI HWERGEESA/VMLEPRIHKIAIL GLGSSIGTPPEGITAEVLVVTST DELQRRASEARGKIVVYNQPYI NYSRTVQYRTQGA/VEAAKVGA LASLIRSVASFISYSPHTGIEYQ DGVPKIPTACITVEDAEMMSRM ASHGKIVIQLMGAKTYPDPTD SFNTVAEITGSKYPEQVVLVSG HLDSDVDVGQAMDDGGGAFIS WEALSLIKDLGLRPKRTLRLVL WTAEQGGVGAFQYYQLHKV NISNYSLVMESDAGTFLPTGLQ FTGSEKARAIMEEVMSLL/QPL NITQVLSHGEGTDINFWIQAG/V PGA/SLDDLYKYFFFHHSHGD TMTVHGQTQMECLLLFWAV VSYVIVADMEIEMLRPS
9397	39765	A	9457	2	631	
9398	39766	A	9458	1	406	PTVCERELCVFAQTLLGVMNE AADEIATGAQVVLLVSMCRS ALESPRKVVFEPYPSVDPNDP QMLAFNPRQLKFMHTPHQFLL LSPPAKESNFRAAKKLFGSTF AF/HLHGAMYSGGIYSPMSSIS FGYSA
9399	39767	A	9459	7	257	

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9400	39768	A	9460	2	649	
9401	39769	B	9461	50	607	
9402	39770	A	9462	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQNVLSPL NLEVDPNMQGMHTQKEQVK TLNKSASFVDKVLFEQQNKM LETNWSLLQQQKPAQSNMDN MFESYINLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLKK DVEDDAYMNKVELEFRLEGLTD EINFLRLYEEEEPELQSQILDTS VVLSDMNSRSLDMSIIAEIKY EELQTLAGKHWDRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQRAQDMAHG
9403	39771	A	9463	2237	2656	LSCSLFSGFAGTRFFGTSILRLPL MYCPVNDSGTAAIASSGSPSATS PP*TPAPGPMISITWSAARIASS CSTTITVLPRSRRWISVPNRRSL SRWCRPIDGSSSTYITPTRPAPI WLAARRIRASPPESVSAERESV
9404	39772	A	9464	3	2790	EFVLIKKDIVDEAYINKVELES LEGLTDEINFLRLYEEIERELQ SWISDTSVVLSDMNSRSLDMNS VIAEVKAQYEEIANRSQAEEAS MYQIKDEELQSLAGKHGDNLR CTKTKISEMNRNISRLQAENEG LKGQRAFLEAAIADAEQCCELA IKDANAKL/SELEALQRAKQD MAWQLRLMNVRLALDIEIATY KKLLEGEESRLESQMNMHSIHT KTTSGYASGLSSACGGTSPGL SYGLGASSFSRT

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9405	39773	A	9465	2	1516	SAIPTSTPASTMSIRVTQKSYKV STSGPRAFSSRYTSGPGSRISSS SFSRVGSSNFRGLGGGYGGAS GMGGITAVTNQSLLSPLVLE VDPNIQAVRTQEKEIKTLNNK FASFDKVRFLEQQNKMLETK WSLLQQQKTARSNMDNMFESY INNLRRLQLETNLGQEKLETK LIGNMQGLVEDFKNKYEDEINK RTEMENEFVLKKDQVDVDEAY MNKVELESRLGLTDEINFLR QLYEEIEIRELSQISDTSVVL DMSRLDMSIIAEVKAQYEDI ANRSRAEAESEMYQIKYEELQSL AGKHGDDLRRKT*DLR*TRN ISRLQAEIEGLKGQRASUEAAI ADAEQRGELAIKANDANAKLSE LEAALQRAKQDMARHLR*VTR ELD*TFKLGPGTFEATYRKLL EGEESRL/ESGMQNSIHTKTT GGYAGGLSSAYGGLTSPGLSYS LGSSVFGSAGSSFSRTSSRAV VVKKJETRDGKLVSSESDVLPK
9406	39774	A	9466	1410	3244	PPCRSRHPRLRGEQKPRPSQP PFAVPAAPAPQV*PQMIDLCNV GFQFYRSLHFHGGKPVKQEPK PSAVWPQPTPTPLPTPYPPYYPK VHPGLMFPFFVPSSPFPFSRHT FLPKQPPEPLPRKAEPQSEET KQKVERVDVNVQIDDSYVVDV GGSQKRWQCPTCEKSYTSKYN LVTHILGHSGIKPHACTHCGKL FKQLSHLHTHMLTHQGTRPHK CQVCHKAFTQTSHLKRHHMQ HSEVKPHNCRVCGRGFAYPSEL KAHEAKHASGRENICVECGLDF PTLAQLKRHLTTHRGPIQVNC ECDKTFQYPSQLQNHMMKHK DIRPYICSECGMEFVQPHHLKQ HSLTHKVLRLWWGGRGLGK RSGALSRLGSRTPVPLCTLPR GGLQGEIQAQSESEFSPVCNHSP GVIAELKQGPSGVPEILPQLNS CPTKGTCRYYPEGSRLPSAGTI NKGPRLGFSRKGDHSLTSGAPL YVGKESKVHFRAYEDPGVKEH KCGICGREFTLLANMKRHLVLIH TNIRAYQCHLCYKSFVOKQTLK AHMIVHSDVKPFKCKLCGKEF NRMHNLMGHMLA/RNGKPLK RLYCPSKFTLKGNLTRHMKVK

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9407	39775	A	9467	1	1309	MRIQQLCGHLWQQKKISLELM SSFHKILKNKMGCQVTPDSKEL LKYLSYCNSTPLTQSPQEAQVPS DVPLPVSKCSHCSVQLIMCLRP EHIIPNSPGIKGGQIKQHEEKHPT LLHLDASHLMTCFVVEMLTYV LIAGFKSLCSIHSYPPRTLRLHC EKVWDSLENERRHEKRGAN FLHRLPAEHQWGVQSSNIMAG LSARLQLFLEHRFPVVELTAN GCPTKGLQGEIQAQSEFSVPC NHSPGVQIAELKQGPSGVPEILP QLNSCPTKGTCRYYPEGSRLPS AGTINKGPRLGFSRKGDSLS GAPLYVGKESKVHFRAYEDPG VKEHKCGIGREFTLLANMKR HVLHTNIRAYQCHLCYKSFVQ KQTLKAHMIVHSDVKPFKCKK SFTAQGNAPQEDAGSQGE/PV CLL/CPNWGQRKGRAWRLRH
9408	39776	A	9468	3	4804	KRLNIQKTLFVAFSEAVVMQ PSVLLDDLDLIAGLPAVPEHE HSPDAVQSQRLAHLNDMIKE FISMGSVALIATSQSQQSLHPL LVSAQGVHIFQCVQHIPPQNE QRCEILCNVIKNKLDCKINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSTREKLV TTLDFQKALRGFLPASLRVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPFLFANLPIRQRT GILLYGPPGTGKTL
9409	39777	A	9469	2	1844	
9410	39778	A	9470	3	772	VPNPYTLTSQIPEEAEWFTVLD LKDVFFCIPVHPDSQFLAFEDP LNPMSQLTCTVLPQGRDPSHL FGQALAQDLSQLSYLDLVLQ YVDDLLAACSETLCHQATQA LLNFLATCGYKVSKEAQLCS QQVKYLGKLKSKGTALSECI QPILAYPHLKTLLQLREFLGITG FCRIW/NFQALLLERPVQLCTC ATLNPVTFLPDNE/EEYNCQHI SQTYATRGLLEVLTPDPLNL YTDGSSFVEKGPQKA

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9411	39779	A	9471	1	6504	MWGSDDLGAAGGGGAATVA FTNARDCLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSDOGENVAEINRQVGQKL GLSNGGQELHAVSLQHLDDQI RIVFPKAIFFVWVDQQTIFYIQI VALIPAASYGRLETTDKLLIQPK TRRAKENTFSKADAEYKLLHS YGRDQKGMMLKELQTKLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSIFSQSEKKQETSWG LTEINAFKNMQSKVVPL
9412	39780	A	9472	2	1658	
9413	39781	A	9473	1	617	MCSWTPVSSILTHPNWPVLR MAGLTGCASVAMKKKIEHNCQ QVIAQTFTTRGDLLEPLTDPGL NLYTDGSSFVEKGLRKAGYAV VSDNGILESPLTPGTSQAEL IALTWAPLEEGKRVKRRKAI WRERFLTSEGTPIKHQEAIRRL LLAVQKPKAVVLCRGRH/QE GNCQVDIEAKRATRSQVARGH KICDFPSCSYR
9414	39782	C	9474	587	715	
9415	39783	A	9475	96	269	
9416	39784	A	9476	1	1398	
9417	39785	B	9477	1	1152	
9418	39786	A	9478	3	241	
9419	39787	C	9479	202	534	
9420	39788	A	9480	108	199	
9421	39789	A	9481	125	352	
9422	39790	A	9482	2	325	RRSLALSPRDCQLQWHNLGSL QAPLPGFTFSCLSLPSSWDYRR PPRPANFLYFLVETGFHLVSQ/ SGLDLLTSIDPPASASQSGITG VSHRARPNQLFFKVRCP
9423	39791	A	9483	184	383	LGLQWRNLGSLQAPLPGFTPFS ICLSLPSSWDYRRPQRPANFFF FVFFLVKGTGFHLVSQ/GLDLL TS*SHPASAFQSAGIIGVSHRRP AITLQF
9424	39792	A	9484	1	416	MGRSFLGGGSLMLLGGGQLH ILTPSPSWTETGNYTCEFCGKQ YKYYTPYQEHVALHAPIRNSA KDDHRSASILSENRRGSHQ/SHAS CHHHYHCHYYHQHHHCLHHH SYHHHHCHHHHRGMWRNWDTV LWIHQTPQVQD

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9425	39793	A	9485	3	534	GRRQRRSRHLLHRRQDRQAP GSGSKIPQKVKVLADEDDDD DDEEDDFDEETEEAPVKKSIQ DTPARNAQKSDQNGKVKSPSS TPRSKGQESFKQEKTPKPKG PRSVEDIKTKMQASIEKAHGT VIGTTVGNIPLRGGNQEKFHGA GVWFGKFGVQRKIQKQLQKD VTSGS
9426	39794	B	9486	44	924	
9427	39795	B	9487	41	2197	
9428	39796	B	9488	67	1507	
9429	39797	A	9489	134	311	
9430	39798	A	9490	5	1545	EKIQINTI/KNDKGILPLDPT EIQITIREYYEHL YAHKLE NLEEIDKFLDIYTL PRLN QEELSNRKPN TACSNL RDGSLLLGDGHGSSIQ AAIEVVGAGSVATKGRGRQ DDTDP SNRYHRPPY SQEKEQCITLLSWCLGDS QGQPQRQLSLQE LRREFT VSLHLARKLLSEVRGQ AHRFVSPNNAAGAGDGGQ TPNPFWPPLTDLAPQAESHL PGVNLVYL LPLGEQLPD VSLTFQAWRRLSV KCTA VRAVYQITRVVETSSCRL HVKGASNASTRSPKEVTQGT NKSERRTRETQRAIRERN MAGCCTCATDVLVTLQSL MEGLALQPQTRALLGSA SIKASCAVTIILMSENL GKGCSKKSEGMVRRY AKHKKQEIKPYQKRKSP SLERGQEEKKVGREDRE GSENQYLYG PSNISEAR NRLPECGRMGLGYV ARLFLGDRSSTPSFAS YDPSSLVTYGHRRSCR VSDIRVPLRGN VGGPCK GTGIDLQCEERKKN EE
9431	39799	A	9491	32	2123	
9432	39800	A	9492	1	911	MSTLKGILIKIISVMIASE FILEERIKTGLNAAKHCF AAPSQAASH TISRPI MPIRSASACSTPTHTPQ DSL TGVGGDVQEAFQSS RRNLRLNDLLVAADSI NTMSSLVKE LNSEVGS ETESNVDFARTQF EDLVSPSTSEKAFLAQI HARKPGYIHS GATTST MRGDMVTGIDA NPYV QPEDENYENDSVRQLEN ELQMEEY LKQKLQDEA YQMPLVPTKKEIHME DFLSSLPEGAIAC PRTFIPDCRRKGASYSQ TDDSNMKTGDDGEP CGHTEEDSS LAAASPKRGTTTPSSS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
9433	39801	A	9493	2	2233	
9434	39802	C	9494	477	737	
9435	39803	A	9495	2	746	GQATHFMAKEV*QWAHAHGHIH WSYRVPHHPEAAAGLIEWWDCL LKSRLLQCQLGDNTLQAWGKVL QKAVYALNQCPYGTVPSPIDRI HGSRNQRVEVEVEVAPLTITPS DPLAKFLLPGLTTLCSAGLQVL VPEGGMPLPGDTTTTPLNRKLR LPPGHFGLFLPLSKQAKMRVTA LAVVIDLDYQDEISLPLHNGDK EEYARSTGDPRLRLVLPCEVIE VNGKLQHNLRGTTNGPDPLG MKVWVSPPG
9436	39804	A	9496	70	532	HVALLMPLQNSRFSGYGFAYP ARNTFSTTIHGLKECLIHGHI PSSIASDQGRFLPKEV/RKWAH AHGIIHWSYHVPHYPEAASP/HS DPLAKFLLPVPTTLCSAGLAVL VPEGGMPLPGDATMIPNLSSR SHLGMPPTSLKVVVMCSKDKY
9437	39805	A	9497	51	408	CVPEPTPSLGFQT/HPAAHAPG AQAPGSAH/DRLSSAGPGSRAA PRAPWRPWTIGYSESQPTVL/RP GQPWPGRGVSGSSAPSPSALR GPPRSSRPSCTTW/WCLWCRRH RDLGRDINFLL
9438	39806	A	9498	3	618	SSCAFHSRRSPSRCHTVRRSTA PCAAS*HSSRAPKRHWALPGSS G*S/WRETPSTHW*P*TLPRWRT ALRPSQ*PRPRVFRVRKPCSSRP PTITRCALASAQ*SCAA'PTSSLA QRKSSSRPRRTATTWGTAARRSR AHAVPAGRSPAPSPAPPQAP RAWSAAPASPSRLSSAGRGRO AAPRAPWRLRGPSPRSCTCT WWCP
9439	39807	B	9499	215	293	
9440	39808	C	9500	1	1170	
9441	39809	C	9501	25	481	
9442	39810	A	9502	27	265	
9443	39811	A	9503	2	326	GRVGGRVGSDLRGDMMAKRT KKVGIVGKYTRYGA/SRVRK MVKKIEISQHAQYTCF/CGKT KMKRRAVGIWCCGSCMKTVA GGAWTYNTTSVIVKSAIRRL KELKDDQ

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9444	39812	A	9504	2	1125	RVGRPLPPRPPTHPRRKPLPPNN VTGKPGSAGHSSGPITTPPLRST PRPTGTPLERIEDIKQPTVPAS GEELNITDFSSSPTRTETDPLGK PRFKGPHVRYIQKPDNSPCSITD SVKRFPKEEATEGNATSPQNP PTNLTVVTVEGCPSEVILDWEK PLNDTVTEYEVISRENGFSFGK NKSQMTNQTFSTVENLKPNTS YEFQVKPKNPLGEGPVSNVAF STESADPRVSEPVSAGRDAIWT ERPFNSDSYSECKGKQYVKRT WYKKFVGVLQCNLSRYKIYLS DFLTGKFYNGDQGRGHGEDHC QFVDSFLDGRGTGQQLTSDQLPI KEGYFRAVRQEPVQFGGIGGHT QINYVQWYECGTTIPGKW
9445	39813	A	9505	2	385	REAGSGGNDNFARRRNFSGRG G\FGGSRGGVWVWVAVGDGY NGFGINDGSGNF\GGGSY\NDF WENTNKSGLQNFPGHEGGEIFG GQKLLAPYGGWRPNTFAKPTK PQGG\YGG\SSSS\SSYGGKWPEDF
9446	39814	A	9506	945	2313	TRVLLESRAGSQSQSEGEASWQ RGYARPSCQAAISFPEHRRALR ALWAGDCRVADAGPGSSSTPP SPPSLPKTSVSLGFLCFKKSLLAA SCASGRERQLEA*VWASQPLSP TQWSEGLGVVWASQPLSPT QWSEGGQ/PGGPSVGISTSLTYPV EGRT/GWGPECYVFCMLHRLPE QHDCTFDHMGGRGREAIMKM VKLDRKVGRSCQRIEGGQED DVVASILVSMQPHSPRTSPHLP YSKFDFSSCNCARQGWKEMG ACVQRPSAVLGGTRPVSVQAK QPLPCFLLGASALGSCGTGLGV KDRDIDRIVVMSVMKILRGNQR PSGDEQARGQRAREGGLGLGV RRACREQWAVLCPLVHRNWV CVSSFLIASQSNSPQQQHNCY ANNSPQQEEGMVGRQAETFL GGVRNRKPWVGVRGLQGSH QQHIQGA VSSPSPPKKGVS KRE
9447	39815	A	9507	3	684	

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9448	39816	A	9508	15	513	RIRLEGLWGSSKTMNLCSKCFADFQKKQPDSDSAPSTNSQSDFSEETSDNNNTSITPTLSPSQPLPTELVNTSPSKEEYSQSENEASPVKRPRLLENTERSEETSRSKQKSRRCFQCQTKLELVQQELGIMCRCGYVFCMLHRLPEQHDCTFDPHGAVAGR
9449	39817	A	9509	818	1455	SDYITRDGASFTKALLTWKNPVPNFFWKDFTKLWGEVIRSTMWKT/DQSPSAAWMGGFGAQQPQQGAPPVIPPNNQAGYGMASYQTQILPSPHILAVFMLPERGPNPDPKRGFLDLARKNLGNWVSTITFLSRFGVQVLQEFVVPGMTPLLRPLELPMHFNPHFSTALASLIADELYLLPQLSVSQMGESFPSPDMMMAICAQASTNRLWMP
9450	39818	A	9510	1	1132	MMEDDGGQRTLYVGNLSRDVTEVLILQLFSQIGPKCKSMITEHTSNDPYCFVEFYEHRDAAAALAAAMNGRKILGKEVKVNWATTPSSQKKDTSNHFHVFGDLSPEITTEDIKSAFAPFGKISDARVVKDMATGKSKGYGFVSFYNKLDAENAIVHMGQWLGGGRQIRTNWATRKPAPKSTQENNTKQLRFEDEVVNQSSPKNCTVYCGGIASGLTDQLMRQTFSPFGQIMEIRVFPEKGYSFVRFSTHESAHAIVSVNGTTIEGHVVVKYWGKESPDMTKNFQQVDYSQWQQWSQVLGNPKPSDIRYMANGWQVPPYELYGQPWNQQAQGVDDQSPSAAWM SGFGA/QPP/QGAPPVIPPNNQAGYGMASYQTQ
9451	39819	B	9511	1	1212	
9452	39820	A	9512	1	1032	

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9453	39821	A	9513	17	976	SGRP/GGPGGPGMGKPRCF/RGE VFGIVIRGPGFPFGRGRGRVGR GARGGKGPRKGLGCPSTKLGL RLVKDH*RSKFPWRRSIYSYSG PLKESEIDFGLGGLLSKDEVFE RLCQVQEPPEPVPQQRHQGSRHF VATGNVQWPTVGSGLKCSQE /VWPTAHPVGPILAKLLHSSPC AEGYWGEQSIGKAP/HTVPCQ/ VWTGRGCSVLVRPHPWHPRG GIVSAPVAKKLLMMAGIDDCY TSARGCTATLGNFAKATFDAI SKTYSYLTPLWKETVFTKSPY QEFTDHLVKTHTRVSVQQTQA PAVAYNIGLVYKKNKVN
9454	39822	A	9514	1	866	
9455	39823	A	9515	1	1793	MAAAAVSGLGRAGWRLLQL RCLPVARCRQALVPRAFHASA VGLRSSDEKQKQPPNFSQOHS ETQGAEKDPPESSHSPPRYTDQ GEEEEEDYESEQLQHRILTA LEFVPAHGWTAEAIAEGAQSLG LSSAAASMGKDGSELILHFVT QCNTLRLTRVLEEEQKLVQLGQ AEKRKTDQFLRDAVETRLRMLI PYIEHWPRALSILMLPHNIPSSL SLLTSMVDDMWHYAGDQSTD FNWYTRRAMLAAYNTTEL VM MQDSSPDFEDTWRFLNRVND AMNMGHTAKQVKSTGEALVQ GLMGAAVTSRPSRRGGWWPLG EMPYANQPTVRITELTDENVKF IIENTDLAVANSIRRVFAIEVP AIDWVQIDANSSVLHDEFIAHR LGLIPLISDDIVDKLQYSRDCTC EEFCPECSVEFTLDVRCNEDQT RHVTSRDLISNSPRVIPVTSRNR DNDPN DYVEQDDILIVKLKRGQ ELRLRAYAKKGFGEHAKWNP TAGVAFYEYDPDNALRHTVYP KPEEWPKSEYSEDEDESQAP YDPNGKPERFYNNVSCGSLRP ETIVLSALSGLKKKLSDLQTQLS HEIQSDVLTIN
9456	39824	A	9516	3	176	FFFFFAETNSK*ITYQNIHIMVEI FQNSIFWDLTYTKDKQIRGQEA RREKRGLGRPL
9457	39825	A	9517	1485	1679	RVGDAGHDDPGKPGPPGAGHR PEG*TAHSLRAGLPACRAEPA GPGRAREGSKAPGHCAELLQ

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9458	39826	A	9518	1	232	FFFETESCVAQAGVQWCDLG SLQTLPTG/SSRHSPASAFRVARI TGARYHVRLLFVFLVQGLHHL GQADFDLLTS
9459	39827	A	9519	1	2408	GTLVTKVAPVSAAPPKVSSGPRL PAPQIVAVKAPNNTTTIQFANLQ LPPTVLIKSNSGPLMLVSPQQT VTRAETTSNITSRPAVPANPQT VKICTVPNSSSLIKKVAVTPV KKLAQIGTIVVTVPKPSSVQS VAVPTSVVTVTPGKPLNTVTTL KPSSLGASSTPSNEPNLKAENSA AVQINLSPTMLENVKKCKNFLA MLIKLACSGSQSPMGQNVKK LVEQLLDAKIEAEFTRKLYVE LKSSPQPHLVFPLKKSVVALRQ LLPNSQSFQCCVQQTSSDMVI ATCTTTVTSPPVTTTVSSSQSE KSHVSGATAPRTSVSVQTLNPLA GPVGAKAGVVTLHSGVPTAAT GGTTAGTGLLQTSKPLVTSVAN TVTTVSLQPEKPVVSGTAVTSL LPAVTFGETSGAAICLPSVKPV VSFCWDHICKPVIGTPVQIKLA QPGPVLSPAGIPTGSSSKQLFS LFHVQQPSGGNEKQVTTISHS STLTIQKCGQKTMVNTIPTSQ FPPASILKQITLPGNKILSLQASP TQKNRIKENVTSCFRDEDDIND VTSMAGVNLNEENACILATNSE LVGTLIQSCKDEPFLFIGALQKR ILDIGKKHDITELNSDANLISQ ATQERLRLGLEKLTIAQHRMT TYKASENYILCSDTRSQLKFL KLDQLEKQRKDLEREMLLKA AKSRSNKEDPEQLRLKQKAKE
9460	39828	A	9520	1	637	MLSNVVRGRKLPNGTWAHDL VTPPTASLLLLTEPAMPSPAFC HSILIVTKGGVKRTRVPPPNSS GARTGNPLKVKHISFKTGDELIF LDPHITQTTFVDTEENGTDNDQT FHCLQSPQRMNINLDPSPAALG FFCKEEKDFDNWCSLVQKEILK ENLRMFELVQKHPSHWPPFVPP AKPIEVTTTGAEFNDSTEQLAEF DLAEEDFEILSV
9461	39829	A	9521	3	176	
9462	39830	B	9522	1	792	

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9463	39831	A	9523	2	486	NGHVGLGVKCSKEVATAIRGAI ILAKLSIVPVRGYSWGNKIGKP HTVPCKVTGRGCSVLRLIPAP RGTGIVSAPVPPKLLMMAGIDD CYTSARGCTATLGNFAKATFD AISKTYSLTDLLEKTVFTKS P*QELTDHLVKTHTRVSVQRT QAPAVATT
9464	39832	B	9524	1	2991	
9465	39833	A	9525	3	263	KHENWSTARQSLHACSRVTWQ NRLRLSNKWMPSHVLCLLP/S MTLQPANLSSLLITPPEFGPKIA SPICTSCSVNFRRLISPFSHC
9466	39834	A	9526	1022	1201	
9467	39835	C	9527	1	924	
9468	39836	A	9528	2	837	WKNCLEKRSM LTMHRILES*D* RQE/ILERHDAKYHSPKAEKQ MKHKAGSQIVKKEEAKLALAL EGFCRFRNHHQTGFSPAGATQR GPLVAILSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGTTGFTGKRAWPPFRL FLPHKGFADWGPTINQDFRLLG QPSVARFLNFSQGPAGEGQSAV ARLPGHFFITQPYPLPGYAAAAG MQALARRRRLMFDLSLSNFCH SSAYYHLFRRSNQAFKGTNNCL KKITPRPATHRSTVVIH
9469	39837	A	9529	3	1137	APAPSPVSGSGCCLSHMFFHPPS RANRAFDVYAPMDEIQNAEIN SQVRRYLEGLTDEIDVRNPSVT TMLSQGPSPGHTPTHALLAS EPHVNGCKTVSTVEDYSGSSE SSNDESDSEDTSDDSSIPRNL QSVVAVPKNSTLPMETSPCSS RSSQSYRHYSDHWEDERLESRR HLYEKFESIASKACPQTDKFFL HKGTEKNPEISFTQSSRKQIDNR LPELSHPQSDGVDSSTHTDVKS DPLGHPNSEETVKAKIPSRQOE ELPIYSSDFEDVPNKSWQQTTF QNRPD SRLGKTELSFSSSCEIPH VDGLHSSEELRLGWDFSQEK STTYQQPDSSYGACGGHKYQQ NAEQYGGTRDYWQANGLLGS
9470	39838	A	9530	1	1857	

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9471	39839	A	9531	1	989	MEDWKVRGHQEKTLAEVQSF SCSERETTLVLRLSPAVPQLLL HGLCGPDLSTKAAQCHFKAIW QSLGNTLGAUSDQATPGHVKS LPPGALISROGRGQFCSDAVF LLHDSPELPSSLPHGASLPASS DKQAEQTLWGA VGS VQCTSIT ACPRLEDRPHLTEHPAGVHC GQNPCCHLIFTLYSKSLPLDLA CRIWDVFCRDGEEFLFKTALGI LKLFEIDILTKMDFIHMAQFLTIR LPEDLPAAELFGPSIATIQMQSR NKKWAQEPGHELEWPDRSFRP RVLACPMGSRHRLQPAACSGST GQGHTKALFPETCCQSPIFQDA
9472	39840	A	9532	2013	2270	
9473	39841	A	9533	3	744	
9474	39842	A	9534	190	991	SVLSNKQNHCSQTAPPPPPAA SGSRGWVWGLFWGLAAILEGS TGADWSQLPHSCCPSLLVPHVL SVVPLRPPHRDFPVEDVFTLPV YFSSDWLNEFDALD VDDYRF VYAGPAGSWSPFHADIFRSFSW SVNVCGRKKWLLFPQGEEAL RDRHGNLPYDVTSPALCDTHL HPRNQLAGPPEITQEAAGEMVF VPSGWHHQVHNLD DTTISINHN WVNGFNLANMWRFLQQUELCA VQEEVSEWRDMPDWHHHCQ VIMRSCSGIKL
9475	39843	A	9535	1	885	MKRRAVMGPQVQAWKALDL WESSQVMEGKAVVPMGRNPM MRKATQGQLENSPALEKLLPPL QGNVGFATKEDLTEVRDLLL ANKVPAATRAGAIGPCEVTVPA QNTGLGPEKISFFQALGHTTKIS RGTTILSDVQLIKTGDRVGAS EATLLNTPNISPFSGFLVIQQVF NNGSIYNPEVLDITEETLYSGFL EGVRNVASCLQTGYPPVASVP PSII/NGYKGCLALSVETDYTFPP AEKIKTFLADPSAFVAAAAPVAT TATAAPAAAAAPTKFENEESSE LDEDMGFGLFD

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9476	39844	A	9536	65	988	RTAVMPREDRATWKSNYFLKII QLLDDYPKCFIVGADNVGSKQ MQQIRMSLRGKAVVLMGKNT MMRKAIRGHLENNPALEKLLP HIRGNVGFVFTKEDLTEIRDML LANKVPAARAGAIAPCEVTVP AQNTGLGPEKTSFFQALGITT SRGTIEILSDVQLIKTGDKVGAS EATLLNMLNISPFSGLVIIQVVF DNGSIYNPEVLDITEETLHSRF LEGVRNVASVCLQIGYPTVAS VPHSHINGYKRVLALSVETDYTF PLAEKVKAFLADPSAFVAAAPV AAATTAAPAAAAAPAKVEAKE
9477	39845	A	9537	1	993	MREIALTQTQCCKGKIGAKVGI RGSEVPAPAYWVAREDVSGSGS GLGGGWYVPCAVLVLDLEPVT MDSLRSRGPGLIFRPTTSSLKLE NADKTFICIDNEALYDIYSRTLK LPPTYGDMNHLLSATMSGVT MCLGFPQQLNADLQKLSVNMV PFPRLHFFMPGFAPLTSRGSQH YQALTVaelTQMIFYAKNMM AARDPRHGRYLTAAlFQGRM PMREVDEQMFNIQDKNSSYFA DWFPDNVKTAVCDIPPRG/LKM SGSFIGNNAIQELFQCVSEQF TAMFRKA/FLHWYTGEG/MDE MEFTAEASNMDLVSEYQQY QDATAQGGGG
9478	39846	A	9538	231	881	SSLGKTVGSLPFRLHWMVPVS YSSVTTRYHHRAGAEEGKDRII FVTKKDHETPSSAELVADDPND PYEEHGLILPNGNINWNCPLG GMASGPCGEQKSAFSCFHYST EEIKGSDCVDQFRAMQECMHK YPDLYPQDEDEEEEREKKPAQ QAEETAPlEATATKEEEDQVNE GHKALSTSPFGVLLQKALSSP SKKVSFCCPVHNIQNNLF
9479	39847	A	9539	1	804	

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9480	39848	A	9540	2	3337	SSLLEKMTSSDKDFRFMATSDL MSELQKDSIQLEDSESRKVVK MLLRLLLEDKNGEVQNLA VKW LGVPLGAFHASLLHCLLPQLSS PRLAVRKRRAVGALGHATACS TDLFVELADHLLDRLPGRPVPT SPTAIRTLIQCLGSVGRQAGHRL GAHLDRLLVPLVEDFCNLDDDE LRESCQAFAFLRKCPKEMGP HVPNVVTSCLQYIKHDPNYNY DSDEDEEQMETEDSEFSEQESE DEYSDDDMSWKVRRAAA
9481	39849	B	9541	1	3178	
9482	39850	A	9542	190	284	LNAQPGTRRLWPAEIRPPRRRL GKGGQQVSHHPPISCFYCECEE KRLCVNTHVWTK*T
9483	39851	A	9543	62	280	
9484	39852	A	9544	1	1452	
9485	39853	A	9545	2	998	ITAGATPEERVICFVEYYLTAFI EGRKGALAKKPYNPIGETFHC SWEVPKDRVKPKRTASR/PLLP AVMNTQWMTLPKSYKLRFA EQVSHHPPISCFYCECEEKRLCV NTHVWTKSKFMGMSVGVSMI GEGVLRLLHEGEEYVFTLPSAY ARSILTIPWVELGGKVSINCAKT GYSATVIFHTKPFYGGKVHRVT AEVKHNPTNTIVCKAHGEWNG TLEFTYNNGETKVIDTTLPVY PKKIRPLEKQGPMEARNLWREV TRYMRLGIDIDAAEQKRHLEE KQRVEERKRENLRTPWKPKYFI QEGDGGWGLQSPLESTLMGLEV
9486	39854	A	9546	12	740	HFFLYKKLIPFVLKNCMFHFSF VRGTVVTNDRWGAGSICKHGG FYTCSDRYNPGHLLPHKWENC MTIDKLSWGYRREAGISDYLT EELVQPLVETVFSAGNPLMDIG PHLDGTVSVVFEERLRQMGSW LKVNGEAIYETYTWRSQNDT VTPDVWYTSKPKKELVYAFLEK WPTSGQLFLGHPKAILGATVEV KALLGHGQPLNWIFFGDKMGIM VELPQLTJHQMPCKGWGAWAL ALTNVI
9487	39855	B	9547	1	627	
9488	39856	B	9548	47	504	

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9489	39857	A	9549	2	379	VDLVREFIERQ/HAKNRYYYYH RQYRRVPDITECKEEDIMCMEY AEMQWKRDRYKVDQEIINIMQD RLKAFQQQSYRA TQQGHPQAA SGGGSWRPLLQIFSLA ASSASV RPGTSWQNCRRP GPD L GKQ
9490	39858	B	9550	49	707	
9491	39859	A	9551	3	1162	
9492	39860	C	9552	342	581	
9493	39861	A	9553	3	513	LLPHKPLAGFFKAYLPSEPPRV YVSSFWPQ/EYKPDTHQELFLQ EEIS/LLEDLNQVIENRLENKI/A FIRQHAIRVRIHALLARGLDPF IGPRRDWLVP AVTGA VAFG VEGLDPSQEHPRFQGTQDNVSK DESTRKEQSVRLVGC GADDRK PRDLQILDRDRKGP ELVQ
9494	39862	A	9554	1	1365	
9495	39863	A	9555	771	1536	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLPTGSPQSLPPYAS IPPTSPSTIK/DPPSTQM V/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLKGFSDNPDGYIDVLQGLG QCQDLTWRDIMLLNQLTLPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPSGTYDTKE CKIVQSVEMSM EVMIA VMSVQ RQQKGQTQQQPLL VVVRSAEP AEESVPHKSSTRGAS
9496	39864	A	9556	220	249	P*N**PSTLTGTGSTTT*QIRM KVN*MGN/DS PQGNTPKMY S GEFSPVRVHVPFSLSDLKQIKID LGKFSDDPDGYIDVLQ
9497	39865	A	9557	2	385	
9498	39866	A	9558	84	849	PRPLSLWSREAGKGVQDCYIDN SQLCRKCDLPTGSPQSLPPYAS IPPTSPSTIK/DPPSTQM V/QKET DKGVNNEPKSGNIPQLCRLQAV GGGEFGPARVRVPFSLSDLKQI KIDLKGFSDNPDGYIDVLQGLG QCQDLTWRDIMLLNQLTLPNE KSAVITAAREFGNLLYLSQLRH WPVTLQPSAVPTPSGTYDTKE CKIVQSVEMSM EVMIA VMSVQ RQQKGQTQQQPLL VVVRSAEP AEESVPHKSSTRGAS
9499	39867	A	9559	66	197	RQWKG*KFVFQKM*DLGKYLQ RQLFCLSSLVQPPWPVPTEIYP
9500	39868	A	9560	1	2340	
9501	39869	B	9561	1	1776	

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9502	39870	A	9562	1	1349	
9503	39871	B	9563	107	769	
9504	39872	A	9564	329	2042	
9505	39873	A	9565	511	1631	HFGNHERTSKVMGNVPRKTKT PLRRILENWEQFDPTLRKKRLI FFCSAAWPEGSINYNTILQLD LFCRKKGKWEVP*VQTFSLRD NSQLCKKCDLCPGTGSLQLPPY PSIATPSPLNKDPPSTQMVQKEI DKRVNSEPKSANIPQL*PLQAV GGREFGPARGVHVPFSLPDLKQI KTDLGKFSNDPDGYIGVLQGLG QFFDLTWDRDIMSLLNQTLTPNE RSATITAARELGDLYWLSQVN DRMTTEERERFPTGQAVPSAD PH*DESEHGDWCCRHLCTCVL EGLRKRTRKAVNFSVMSTVTQ GKEENPTAFLERLREALRKHTS LSPDSIEGQLILKIKFITRSAADI RKQTSKVHLRPGAKLKTPY
9506	39874	A	9566	15	178	
9507	39875	A	9567	3	826	RQLGTRNFLNGTKAKAFELSYL EKVPEGKDTVHKQSLHHVGT MGGENFPDSSDLYSEIGAITRSA KDDFDQLQDNLQCMERRCIAS WDHLKAIKHEMKPLLKQKMS ELLKDCAERIIILKIVHTRIINRF HSFLFMGHPPIAIREVNINKFC RIISEFALEYRTTRERVLQKQK RANHRENRKTRGKMITDSGKF SGSSPAPPSPQGLSYAEDAAE HGEHEGCAENLVPLQESPAHTF SIVSAVFLIP*HPVY*FKSVTPF LGKEQPL
9508	39876	A	9568	1	670	

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9509	39877	A	9569	1	2426	MPKPSLEAGSCPRLEFPVEDAQ PVIKGEETPPPPNSYLALGDIST EEWDLEVAQEYQERMPQRAA LICVFSWNLGRSLPAPAMRRPC QNFCVALSTFAGDPEPESEAE EAEAGAGQVADEAGQDIASAH EGAETEVEQALEQFPEERASLS EKERQNEGVRNDRNCSASSVSS SSSTLEREEKEDKLSRDRTTGL WPAGVQDAGVNGQCGDILTNK RFMLDMLYAHNRKSPDDEEK DGEAGRTQEEAEAVASLATRIS TLQANSQTQDESVRVDVGCL DNRGVSVAFAEKFSGDLGRV FNAPQGLGWSQVPRGQPTFTK KKKTIRLFWNRN/VGLLTGH/G KNNRRCREFLWSKLEPIKVDTS RLEHLFESKSKELSVSKASKLV RPLFILTSACPLSFPWKAPLHS STRQLHRGLSAQERWRCSGIRG MECLNGKGPLESRNPA YRKSE GTRQTGAGDMKDVWQGVPA TPDTQGMCTVCTVSFAIMDGL NVNSVGPLPFHEVAEPLLDLKE GIDQLDYLTLGFFFLVSMISGGG LLGGSASAKAFELSYLEKVPEV KDTVHKQSLHHVCTMVVENF PDSSDLYSEIGAITRFHSFLFM GHPPYAIREVNINKFCRISEFAL EYRTTRERV LQKQKCRANHRE RNKTRGKMITNCVRHCVRMFS GSSPAPPSPQQLSYAEDAAEH
9510	39878	B	9570	164	346	
9511	39879	C	9571	160	339	
9512	39880	A	9572	54	212	SFSPVVLWKDLQNLKIQVPLI LLGVGLISVPGGRI*LLRTGSRK PISQVCP
9513	39881	C	9573	48	185	
9514	39882	A	9574	2	551	ADRRGAVYPRSRDGGGVGRGP AMATSVLCLRSCKDRGTGHIP LKDMLSVHMDTQHMGTDVVI VKNGRKIFGTGGCLASAPLHQN KSYFEFKIQSTGIWGIGVATQK VNLNQIPLGRDMHSLVMKNDG ALYHNNEEKNRLPANSLPQEG D/VVDDSAILDCCQSEFYHTPPP GFEEKLFEQQIF
9515	39883	A	9575	3	655	

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9516	39884	A	9576	131	1066	SHSSAAAHPLGLLPAAQSLA VFIEPWSQASSRGQLQVSAPGI WGIGVATQKVNLNQIPLGRDM HSLVMRNDGALYHNNEEK NRL PANSLPQEGDVVLCSNNGHS LCKEESLPILPTSDGEERRRR KKRRKKRRKKQKQQQQEAAA PAEADAEATAAEAAVEEAAAR KEEEEEEGEGEGEGEEEEKAA AAARGDWSQQEKACKSSLQAI LFGHAKLEPGRLPRPTQCRVEA TVLVGTNSPLDNPLWSISWSLW QKPVGTSQQPLGLWTREFFLE GHILTRNETTTEATPLIPEIGML SQMMSEEH
9517	39885	A	9577	1	2363	ELQRDIEKHSTGVASVNLCEV LLHDCDACATDAECDSIQQATR NLDRRWNRNICAMSMERRLKIE ETWRLWQKFLDDYSRFEDWLK SSERTAAFPSSSGVIYTVAKEEL KKFEAFQRQVHECLTQLELINK QYRRLARENRTDSACSLKQMV HEGNQRWDNLQKRVTSILRL KHFIQREEFETARDSILVWLTE MDLQLTNIEHFSECDVQAKIKQ LKAFFQQEISLNHNKIEIIAQGE QLIEKSEPLDAAIIIEELDELRR YCQEVFGRVERYHKKLIRLPLP DDEHDLSDRELEEDSAAISDL HWHDRSADSLSPQSSNLSLF ASLQPLRSER/SGRDTPO/SVDSI PLAEWDHDYDLSRDLESAMSRA LPSEDEEGQDDKDFYLRGAVG LSDVMIPESPEAYVKLTENAIAK NTSGDIHSALESQIRQLGKALDD SRFQIQQTENIIRSKTPTGPEDT SYKGYMKLLGECSSIDSVKRL EHKLKEEESLPGFVNLHSTET QTAGVIDRWELLQAQALSKEL RMKQNLQKWQFNSDLNSIW AWLGDTEEELEQLQRLELSTDI QTIELQIKKLKELPESCDWHR/K AIIISINLCSPEFTQADSKESRDL QDRLSQMNGRWDRVCSLLEE WRGLLQDALMQCGFHEMSH GLLLMLLENIDRRKNEIVPIDSNL DAEILQDHHKQLMQIKHELLES

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hnd	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
9518	39886	A	9578	2	3248	ENAVGSWTDDLTLQLSLKDLT SAYISADDISILNERVELLRQW EELCHQLSLRRQQIGERLNEWA VFSEKNKELCEWLTQMESKVS QNGDILIEEMIEKLKKDYQEEIA IAQENKIQLQQMGERLAKASHE SKASEIEYKLGKVNDRWQHLL DLIAARVKKLKETLVAVQQLD KNMSSLRTWLAHIESELAKPIV YDSCNSEEIQRKLNQEQELQRD IEKHSTGVASVNLNCEVLLHDC DACA TDAECDSIQQA
9519	39887	A	9579	2	194	CSTSLMIREMQIKTTVRYHLTS ARMAIIKKSKNSRCWHGCGEH GTL LHCCNLWKERNVSYVSA
9520	39888	C	9580	105	215	
9521	39889	A	9581	1	210	MNSHFLKEDIQMANHKMEKCS VTL MIREMQIKPTVRYHLTSAR MPIIKSKNSRCWHGCGEHGT LLHC
9522	39890	C	9582	48	182	
9523	39891	A	9583	3	225	
9524	39892	A	9584	1	549	
9525	39893	A	9585	367	971	GVCLLGAPAGRRGSLLSLGLSR GQGSYLSKNVA VPSEATTVREL HP**\TSLQRPSPDPGGWVVLGF PCNQFGHQENRQNEIELNSLK VRSGPGGGFEAQLHGSSRKCEV NG\SGAHLPLFAFLRLEALPVPS DDGPRAL*PTPKLITWFGSVFA TIVAWNFFKFLVGPDPVPLR RYSRAVQTIDIEPDIEALLSQGP
9526	39894	A	9586	1	129	
9527	39895	A	9587	1	406	PTVCERELCVFAFQTLGV MNE AADEIATGAQVVDLLVSMCRS ALESPRKVVFEPYPSVVDPNDP QMLAFNPRQLKFMHTPHQFLL LSSPPAKESNFRAAKKLFGSTF AF/HLHGAMYSGIYLSPMSSIS FGYSA
9528	39896	A	9588	2	634	SSNRSHIVKLPVNRRLKFMHTP HQFLL LSSPPAKESNFRAAKKL FGSTFAFHGSHIENWHSILRNL VVASNTRLQLHGAMYSGIY SPMSSISFGYSGMNNKKQVSAK DEPASSKSSNTSQSKKGQQS QFLQSRNLKCNALCEVITSSDL HKHGEIWGCPPI/SDHVCTRFFF VYEDGQVG DANINTQEGGIHK EILRVIGNQTATG

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9529	39897	A	9589	3	3623	FGVCARGCLDSAGPWMTSRAL RPPLPPLCFFLLLLAAAGARAG GYETCPTVQPNMLNVHLLPHT HDDVGWLKTVQYFYGIKNDI QHAGVQYILDSVISALLEDPTR RFIYVEIAFFSRWWHQQTNAATQ EVVRDLVRQGRLEFANGGWV MNDEEAATHYGAIVDQMTLGLR FLEDTFGNDGRPRVAWHIDPFG HSREQASLFAQMGFDGFFGRL DYQDKWVRMQKLEMEQVWR ASTSLKPPTADLFTGVLPNGYN
9530	39898	B	9590	1	3839	
9531	39899	B	9591	1	513	
9532	39900	A	9592	1	233	KQELNEPPKQSTSFVLQEILES ENKGDPNKPSGFRSVKAPVTK VAASIGNAQKLPMDCKGTVL QQASAAAFSLV
9533	39901	A	9593	3	469	LTVARSEHKVWSPLVTGEGKR HPYKMNLASEPQEVHLHIGSAHN RSAMPFNASPASSTTARVITNQ YNNPAGLYSSENISNFNNVASSL VIDKESEVYKMLQEKQELNEHP KQSTSFVWLQEILESEEEKGDPN KPSGFRSVKAPVTKVAASIGNA
9534	39902	A	9594	1	1146	MTTQQIDLQGGPWGFRVLVGR KDFEQPLAISRVTPGSKAALAN LCIGDVITAIDGENTSNNMTHLE AQNRIGCTDNLTLTVARSEH/ KKVWSPLVTEEGKRHPYKMNLA ASEVPQEVHLHIGSAHNRAMPFT ASPASSTTARVITNQYNNPAGL YSSENISNFNNC/ALESKDWLPA GVEANSRPLDHA/QPPSSSLVID KRILKVYKMLQEKQELNE/PPK QSTSFVLFQCEILLES/EEKGDPN KPSGFRSVKAPVTKVAASIG KCSRKFACVDKCVHLGFLGV FLKLRDRHRHP*VFMCCTDC GHQT*KQKGPFLWMDQIYCE ESMAPGSEVNTHTPEGIYESGST VFPPSGAQDLDPLFLPAGLLL KLFLKCKSGPLSL
9535	39903	A	9595	65	353	

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9536	39904	A	9596	1	1974	MNGVPVGAQKRVDKEEVKNG AIAELFSEDWSDCAYKANEVSR IRPLEESELLYPILGQSKLFVLSG EWSQSSEASEEVAVTLIYQLA ESPTVICAQIWQGCQAKQALEKL EEKRTSQGDPKESPTMLPTFL MNL LSLAGDVAIQQLVHLEQA VSGELCQRRVLRREEQEHKTKDP KEKNTSFETTMEEELGLVGAA DDTEAELIRGFCKMELLDGKQT LAAFVPLLLKVYNNSGLYSNPD LSAAASPTLGKFCMISTTFCNSQ PHLLFTMLEKSPLPIVRSLI VA TGDLAIHFNLVDPWTPHLYAH LQDPAQPVWKTGVLVMTLHL KDMVKVKGQSKAL/RKMLGNF DCFQDKLSDSEIFSSFLSVMGKL QHGAKEGKAIIDFEQKLQAC HARGLDGIEELINQAGSQRAP TAKKPSTVCRHQPLASAASDN DFVTPPEPRRTTHRPNTQQRAS EKKPKVVFSSDESSIKTEVEGLG YNIKL RVATQRLSFVWVMNIA EGESAVLVTVAWPECEVAVMG SLGSAARGTGKRLQEGNLQL NFVTIATKLEVSWTELGCGCVS ALFASVGTGREKAGFYQGCSE ASNIMKRGVKEVEDVQKRLI KMTVEFNLAWSLPPHMA MDQGGDRVTHESFLRCMTLMR
9537	39905	A	9597	785	5049	ACRSRMAPQMYEFHPLSPPEL LKSQGVYQYVQVEVLSIKHLPP QLRAFQAQAFRAQGPLMLQHF DTIYSLHHFRSIDPGLKEDTLEF LIKGVYSGVVSRRHSQELPAIL DDTTLSGSDRNAHLNALKMNC YALIRLLESFETMASQTNLVDL DLGGKGKKARTKAAIHGFDWE EERQPIQLLTQLQLDIRHLW NHSIIIEEFVSLVTGCCYRLLEN PTINHQNRPTRAITHLGLVA LTRYNHMSLATVVKI
9538	39906	C	9598	134	382	
9539	39907	A	9599	117	235	KIAAPQLHVLPFLFFCMRPFAP WQPLPEPLELRPLSLD
9540	39908	B	9600	1	732	
9541	39909	C	9601	1	420	
9542	39910	B	9602	110	928	

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9543	39911	A	9603	1	868	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSLRLSEMPRKQGD YRTRIWKFEDGLSNVLVIQLNK LIICVMCLDLAIKGLRVLLVEG NDPQGTASMYHGWWPDLHIHA EDTLPPFYLGEKDDVTYAIYFT CWPGLDIIPSCLAHRIETELMG KFDEGKLPTDPHMLRLAIETV AHDYDVIVDSAPNLGIGTINVV CAADVLIPTPAELFDYTSALQ FFDMLRLDKNVDLKGFEPDD PTGNRTVQLTWQPLPEPLEL/C*
9544	39912	A	9604	1036	1119	
9545	39913	C	9605	1	513	
9546	39914	A	9606	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDESLRSHFEQWGTLDTCVV MRDPNTKRSRFGFVITYATVE EVDAAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYQKIE VIEIMTRDGSKKRGFAFVTFD DHDSVDKTVIQKYHTVNGHNC EVRKALSKQEMASASSSQGRS GSGNFGGGRGGGFGGNDNFRG GGNFSGRGGFGGSHGGGYYGG SGDGYNGFGNDGNSNFGGGGSY NDFGNYNNQSSNFGPMKGGNF GGRSSGPYGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
9547	39915	A	9607	1	286	
9548	39916	A	9608	1	1674	
9549	39917	B	9609	531	744	
9550	39918	A	9610	1	818	YNRAMFHAPHAVNKIALSLNNK NPARSKVLFLELLAAVCLVRGG HKLFLYLAFDNFKEVCGEKQRFE KLMEHFRNEDNNDIFMVASMQ FINIVVHSVEDMNFRVHLQYEF TKLGLDEYLDKLKHTESDKLS/ VQIQAYLDNVFDVGALLEDAAE TKNAALERVELEENISHLSEK LQDTENEAMSKIVELEKQLMQ RNKELDVVREIYKDANTQVHT LRKMVKEKEEAIQRQSTLEKKI HELEKQGTIKIHKKGDDGDIILP VVASAHCPWGQKW

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9551	39919	A	9611	1	937	MALLTLKQQQNEDLQDISHFTT TRTPRQGTTPVQKEKSEETRLEW ARRMLRRDQHS TKGKVVKRM RGFLVGLVYCDKQSGALESLLC LWNVSGNTTSSLVEIGSKAAL GLVCGEKQRFELMEHFRNED NNIDFMVASMQFINIVVHVSVD MNFVRVHLQYEFTKLGLDEYLD LLDTKSTDRKQTLLHYISNVVK EQYHQVSLFYNELHYVEKAAA VSENVLLDVKELQRGMDFTK REYTMHDHNTLLKEFILNNEGK LKKLQDDAKIAQDAFDDVVVKY FGENPKTTPPSVFFPVFVRVKA YKQAEFE/NMELRKKQEALM EKLLEQEALMEQQDPKSPSHKS KRQQQELIAELRKQRQVKIDNR HVYEGKDGAIEDIITVSENVLL DVKELQRGMDFTKREYTMHD HNTLLKEFILNNEGKLLKLQDD AKIAQDAFDDVVVKYFGENPKT TPPSVFFPVFVRVFKAYKQAE
9552	39920	C	9612	47	286	
9553	39921	A	9613	1	423	

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9554	39922	A	9614	1	2015	MPSVSKAAAAALSGSPQTEKP THYRYLKEFRTEQCPLFSQHKC AQHRPFTCFHWH/FPQTRRRR PLGRRDGTFNYSPPDVYCSKYNE ATGVCPDGDCEPYLHRTTGDT ERKYHVIRYYKTGTCIHETDAR GHCVKNRLHCAFAHGPLDLRP PVCDVRELQAQALQNGQLGG GEGVPDLQPGVLASQAMIEKIL SEDPRWQALLPVALLRHRVAH FSDANFVLGSYKTEQCPKPPRL CRQGYACPHYHNSRDRRRNPR RFQYRSTPCPSVKHGDWEGEPS RCDGGDGCQYCHSRTEQQFHP EGPVRESGVRGVFCVQSRRPW LQTPVSGTQLKWSWHVGHHSR TINPEGDKPSRLGAPENIKRGN DFACDGRADAAGMAPHVCVFP IYKSTKCNDRMQTGYCPRGPFC AFAHVEKSLGMVNEWGCHDL HLTSPSTSGSQPGNAKRDRDSP AEGGPRGSEQDSKQGVRAHGV YVFEQNHLAVFAAVHPPAPSVS SSVASSLASSAGSGSSPTALPA PPARALPLGPASSTVEAVLALE PTPSSPTSSAVQGVAGELGMGS GGQGCWSHVVGALAAVPAWT HSGDLEWDPSTIRTVNVGGGGP AARPAMTLAREPQLLVGGGCP TRNCSGPAASPQLLDDAGQG GRGERDSSQRPLRPQTTHRQDT
9555	39923	A	9615	2	609	IHSLCVSPCLSPCHCLSLSPASLL VSFFCCLFLMTLFPCLCVCGSLP VHLLPSL/HFLSQVLNEYFHN CELDLVFNFYKVECFPLKSPVV PESKEIGSQVDGQSRMEQRSPA HTNRENDIAREGGSEETHSKPG KGNLEFRFRCSHLQLGECPIPP WQKERTIAQGPEPEARAAVPA GRHDTRHAVNAGCALIGSLRRP WGGA
9556	39924	A	9616	60	277	
9557	39925	B	9617	43	354	
9558	39926	A	9618	3	309	GGGQGRPGAGGGQGRSDGGGQ GSPGGGSGQSPGGSGGVGGGS RGGQKPGGGGGGQSPDGGGR PLAGGASRRGRSGQAQ/CPISV SATHLAF
9559	39927	A	9619	36	363	

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9560	39928	A	9620	1	512	MLMPGLSACVRDCVAFLLQAVV LGDPSAAQCQDWTWLAASAD GTCKAVGTEDGSVYFISVYDKE SPQVVHKAFLSESSVQHVVYD QQGIFLLVGTAEKGVFIINANS SSFQIIGFT/DGGQRHFTDIHSVS FRNRHSGSDGAFLASRSREKQV GDVHTAYITATSFHNL
9561	39929	A	9621	1	822	MKLG/VQVVITDHEKLDQIRQR ESD/ITKERIQKILATGANVILTT GGIDDMCLKYFVEAGAMAVRR VLK/RIAKASGATILSTLANSKA HTSASIIIRGANDIMCGEMERSL HDALCVVVRV/LESKSMVPGGG AVEAALSILYENYATSMGSQKE LAIAEFARSLLVIPNTLAVNAA QDSTDLVTKFRAFHNAAQVNP EHKNLKWIGLDLSNGERGDNK QAGMFPEPTIVKVKSLKFATEAA ITILRIDDLTKLHPESKDDKHGG YEDAVHSGALND
9562	39930	B	9622	625	1162	
9563	39931	A	9623	202	402	
9564	39932	A	9624	350	652	SAGGYPDGQGVHPGPPELFAAL GRLGHTLREHGHLLRYHRPG HMGRRPLPCRMGHREPGSLH* QDCPRAWQWCWPHRPGHLQD VPPPGIHLQRLSQPGP
9565	39933	A	9625	83	1503	SWNTPYNHWATKQ/LSSHSYR GGAKYEGEAVKQSLVESYTHP NSNETERSANIDTVMNWFKE DFDFVTLCYREPNDVGHFRPE AENRKLMIQIDRTIRPWDHR EETQCCQDPLSNYIKFMDLVK FDIVGYGGFGMPLPKLGQEEAL YQALKNAYPHLHIYKKEGFPEH FHLAKHDRVLPVIMYANFGYSI NGISLLYFYTHLCDKYFNVHFF HEPLSLWRAQTTPSLSHRYISLV RHMDATNLDASEAQLPGSPYP DSAPGANLDSTQDLQORRLSW PYPRPRFPNAHGPALQAPRTL LLTLPPGPAPSLPPRTALGPPL QSRPGFRPVSQRRCGAHFMAP EENAGTELLQSFERRFLAART LRSFPWQGGGGAERAPAGLAG VQQTGWVSVLKPALLPREFL GSPRSRGPDPVVPVGAWPKS LA PLLPRELAAEDEVSTALGGQT RARCGVQFTIITFTF
9566	39934	B	9626	1	1177	

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9567	39935	A	9627	1	283	
9568	39936	A	9628	1	708	MPKGKEAKGKKLALAPAFVKK QEAKKVVNPLFEKRPKNFGIGQ DIQPKRDLTCFVKWPRYIRLQW QRSILYKQLKIPETKQEKKWRL LAQAE/SVGKGDLPMKRLPVFR AGVNTVTTFVDNKKAPLVVTT HDMPIELTVFLPVLCHKMGMA TCCIIGKARGCLVHRKTYTT VDFTVQNSDEKGAALVEAI GTNYNARYDETHCHWDGNVL GPKSVAHIAKLEKAKAKELAT
9569	39937	A	9629	1	836	GTRPKMPKGGKAGKKVAPAP AVVKKQEAKKVVNPLFEKR/PK NFGIGQDIQPKRDLTRFVKWPR YIRLQQRRAILYKRLKEPPAIN QFTQALADRTATQLLKLAKH YRPETKQEK/KQRL/LARAEEK AAIGKGDVPTKRPPV/LFRAGV KQSPPLVEWKEFSFVVISHD VDIELVVFLPALCRKMGVPY CIIIGKARGRLSHKKTCTTVA FTQVNSDEKGAALVEAIRTN YNDRYDEIRRHGGNVLGPKS VARIKLEKAKAKELATKLG
9570	39938	A	9630	3	119	
9571	39939	B	9631	1	711	
9572	39940	B	9632	97	942	
9573	39941	A	9633	1	588	
9574	39942	A	9634	1	1029	
9575	39943	A	9635	1	1031	MADQKEARHSASQWKFVGF SFRGHMQVAWEADRCCKGPRP LLAEALQDLWSPRRSQDPVP ERPCRRPQQSPLPRFGSLAPLH RENNFIKDFQLADGLLVIPLPV EEQCRGVLSEPLDQLLTGDIR YDEAMGYPMVQQWRVRSNLY RVKLSITLAAAGFTNVLKILTK SSRELLSFIQHYGSHYIAEALY GSELTCTIIHFPSKKVQQQLWLQ YQKGFLGEPKKILGSSLPRTQF LWKNHNLITQTVSILSCGEAFI LRKGQQISFSDSLLSEFLR PGAGDQSLPTHLVKVIFPPQFS L/LCEMGTFFILFCNNINCAWGRG RGERYSQSC

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9576	39944	A	9636	3	4091	FASASAVSAAASSSSFATAATA AAARSTAAPPMAAAAGARLSP GPGSGLRGRPRLCFHPGPPLLP LLLLLFLLLPPPPLLAGATAAAS REPDSPCRCLKTVTVSTLPALRES DIGWSGARAGAGAGTGAGAA AAAASPGSPGSAGTAAESRLLL FVRNELPGRIAVQDDLNTLP FFTLEMSGTAADISLVHWRQQ WLENGTLVFHVMSSSGQLAQ ATAPTLQEPSEIVEEQMHILHIS VMGLIALLLLLLV
9577	39945	A	9637	2	398	SDARVDALNKKIWERIKKHLE GHSTNLSLDIAKLKEQIFEASQA HLTLMPTGVLEGAADRLSAS NPLKWIKTLGSSVISMMIVLLIC VVCLCVVCRCS*LLREVAHRD KAAFAFIALQIKEGEHVGNST
9578	39946	A	9638	201	495	WKKTLMPGTGVLEGAAN/GLA AINPLKWIKTLGDSVISMMIVLL IC/VCLCIVCRCSRLREVAHC DKATFAFIIEKMWYFGFCFCN NSLRVIASSCIH
9579	39947	A	9639	3	409	GIYILHQKKTWEKILLAACAIV AIENPADVSVISSRKTGQKATPL FAAVTGATLVAGCFTPRFESNQ ISAAAFREPQLLVVTDPRADHQP LTEASYINLPITALC/TDSPLHYV GLAIQCNNKGAHSGGLTCNLS
9580	39948	A	9640	3	438	
9581	39949	A	9641	288	489	SFRPLSVLGDVVRGPTKPSGK CSPASRSLFVRRHILLHPQGLH NLDQNKATPPQPLUGHQTCAC
9582	39950	C	9642	23	411	
9583	39951	A	9643	1	209	SPSTTAVCCPPRPSIDFHSSGSSR VSAALLIQ/QRFLPLWIGLKAR HCSCGLRQRQSVSQETEDGK AG

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9584	39952	A	9644	28	925	PEAGTRSWREPDPEDLRRFLLS AACRSFPQWLPGGGGGQVSSC SDTDVPYLLAVKSEPGFAER QAVRETRRKPTS\GIRLLFLLS PVGEAGPDLNSLVAWESRRYS DLLLWDFLDVFPNQLTKEP/VL WLPGWAGPCPTGSFVLRQDD AFVHTPALLAHLRALPPASARS LYLGEVFTQAMPLRKPGGPFY VPESFFEGGYPAYASGGGYVIA GRLAPWLLRAAARVAPFPFED VYTGLCIRALGLVPQAHPGFLT AWPADRTADHCAFRNLLLVRP LGPQASIRLWKQLQDPRQC
9585	39953	A	9645	1	1612	MIFVVIILMVVLSPEGGSGLDSS PFLSEANAERIVQTLCTVRGAA LKPYPPTGPNFRYSHGVPPHLF AYFPFGSTVSQDNSFISPLQHI FERVRQSADFMPRWQMLRVLE EELGRDWQAKVASLEEVFAA ASIGQVHQGLLRDGTAVKIQ YPGIAQSIQSDVQNLALVKMS AALPAGLFAEQSLALQELA WECDYRREAACAQNRQLLAN DPFFRVPAVVKELCTTRVLGME LAGGVPLDQCQGLSQDLRNQIC FQLLTCLRELFEFRFMQTDPN WANFLYDASSHQVTLLDFGAS REFGTEFTDHYIEVVKAAADGD RDCVLQKSRDLKFLTGFKAF SDAHVEAVMILGEPFATQGPYD FGSGETARR\QDLIPVLLRHRL VSP\PEGDLWPWHRKL\AGAF ACAHLRDHIACRDHKPGHLPPL LGQSPARRSHCRQPPHQGTGP WIPHDSLHGGFSPQSRPYAVV PLIPSPSALGQRSPLGLPSLAWL SSLAQELRIPGAGELPTSCPRSC TS\PESEVSEN
9586	39954	A	9646	930	1123	GVRRDGSSASVTVGQPCRDTSL AFETVAGPYLA*K*T*TSQKPGS D*RASKVAGGVQNGTRTTAT
9587	39955	A	9647	719	1346	

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9588	39956	A	9648	1	823	MKKVLIAALIAAGFSLSATAAETI RFATEASYPPFESIDANNQIVGF DVDLAQALCKEIDATCTFSNQA FDSLIPSLKFRRVEAVMAGMDI TPEREKQVLFTTPYYDNFALFV GQQGKYTSVDQLEGKKVGQV NGPTHQKFIMDKHPEITYVSDE SYQNAKLADLQNGCAARAAPG SRRYGGWTIQASTARPSDVLLT ADSVSFAVRSRGAAATAYHRC CLSGVMVNAATACEHSTASQG RASRTVTDSDPHPRSVRRRAS FRRSGRGFCGTVR
9589	39957	A	9649	583	730	
9590	39958	C	9650	333	439	
9591	39959	A	9651	2	171	
9592	39960	A	9652	1	826	MGGLFWRSALRGLRCGPAPG PSLLVRHSGGTIMGVFAVGTI PVPSRVPCIEADTLKPGGPSWT RERTLVAVKPDGVQRRVLVDV IQRFERRGFTLVGMKMLQAPE SVLAEHYQDLRRKPFPPCPSSR YMSSGPVVA MVWEGYNNVRA SRAMIGHTDSAEAAPG(TIKGV DFS VHSRNVIHADSVEGAQR EIQLWFQSSSELVSWA/DGGQH SSIHPLRLRAALTTPSPQTQDPT YPPLARTSPSTKPAISPPLTS PVSPLAPPQAQREF

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9593	39961	A	9653	144	1650	NCETTTKGSAILRNVDPSLLPL RRAGSSPGLMPVEEEMEIDEK QMKGFLDDSERMAFLVSLHLG AAERWFILQMEVGEPLSHENKS FLRRSQGIYDSLSEIDILSAVLC HPKQGGKSVRQYATDFLLAR HLSWSDAILRTRFLEGLSEAVT TKMGRIFLKVAGSLKELIDRSL YTECQLAEKDSPGNSSQVLP ACKRNNEEAMGNELSSQQQTE EHQHVSRCYLYLKEHGDPOEG LHDHLQSTGHHQKAHTNNVA ATKKVVQQLQLEAGLNSVKVS QAAETPQTIIISPPNALQEPSGIE WEQFPKAIQSEPOENLCPFVST MNSIKGLHEDYQGNAGKVLST VPGRRYALQNLGTAIVQGEER KQSSLCPGEEGRHLELRSGSHS LVMKHAMVLFNVGFETKDQIH LPTRLGMAEVEITLCYAKQLPH KLIAKLRLLLKGRPLSLNNEHIL THPGLGWLHTEFFRILSINNKY HLSAYLVQSVLHVMOGFHRT
9594	39962	A	9654	8	440	VFERSTPPTLETVRSKQEWETR LNGVRIMKKNVDRDQFNHIQL VRNGAKLSSLQIPTPTLPPPPSE TSCFRCFNPVPLWLLGCPSPLG RQTGEDPGEAADPVPTVQ*GPD DQHSSADQDSTYHHGRPDHGG TYPVGCCTTGRT
9595	39963	C	9655	89	389	
9596	39964	A	9656	1	184	
9597	39965	B	9657	1	942	
9598	39966	A	9658	424	614	NDGPDWGGRRRETVDNKRKRGF KISKTLVLYSDIYSCHVHFYIG NVCIESLYSNVRK*NYVYY
9599	39967	A	9659	1	717	
9600	39968	A	9660	103	374	
9601	39969	A	9661	1590	2051	SYPVSEERSQAEQSSNPYSHT STPIRDLHASGVSTQSLSGSSD ALLHWAGHNAHGVAQCRSPLL VFPNPEPCFPAPQAFILTPSWLP WQK*PWLGFCPPRSTHAPCR LHPTSPGLGGVKASAEPRPQP VD/ETGEDPGEAADPVPTVQ

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9602	39970	A	9662	1	2912	MAQALPWLLWMGAGVLP AQHQHGRILPLRSLGGAPLGLR LPRETDEPEEPGRRGSVFEMV DNLRGKSGQGYVEMTVGSP QTLNILDVTGSSNFAVGAAPHP FLHRYYYRQLSSTYRDLRKG YVPTYTGKWEGLGTDLVSIH GPNVTVRANIAITESDKFFING SNWEGILGLAYAEIARPDSSLE PFDDSLVKQTHVPLNLSLQLCG AGFPLNQSEVLASVGGSMIIGGI DHSLYTGSLWYTP
9603	39971	A	9663	1	902	MSAKEKGFENMAKADKVHY VREMKTYPKQETKKKFKDPN APKRPPFS/SEYCPKIGIEHPGQ STGDVAKKLGEMRTNSAADDK WPYEKKAALKKEKYRKDTAV YRAKGKPDAAKKGDVKAES KKRKNEKDEDEDEDEDEDEE DDDNEYADNCTGSGFVYKT FNSPVHNSLFLNVEIHAGFDEL LESIFCILLVEVFSLQKGVAML EEVVNGERSGRSLPWLPAAPS LPVPVPLGLRHPPSQSDNHS LTFTLALRLRLPRLGAVLEETV EDGRKTNLDPDENSVPFSPET
9604	39972	A	9664	146	733	LNMKGDKPKPRGMSSYAFF VQTCREEHKKHDPASVNFSEF SKKCSERWKTMSAKEGKFED MAKADKARYEREMKTYIPPKG EDTKKKFKDPNAPKRPPSAFF LFCSEY/RAPKIGGEHPGLSIG DVAEETGEEMWNNTAADDKQ PYEKKAALKKEKYEKDIAAYR AKGKPDAAKKGVVKAERKSTR PRIPDL
9605	39973	A	9665	30	359	
9606	39974	C	9666	418	555	
9607	39975	B	9667	550	1717	
9608	39976	B	9668	1	1705	
9609	39977	B	9669	328	484	

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9610	39978	A	9670	5	1215	IIVLPKMSMPVVSQAQLTITSIPP WAVE/WGNVTLVSQGIPQNLIS YNNWLRGATTNQVTRILNFFFS HGVTLGAHTGRETGRADGSLI IIDVRASDNGIYTLHLISSGEKV AIMLCYLSLLVAPWHFHKTPR WRFPGWGPRAASQRASCSPQS WSSGCSK/VSQAALYIQKIQEPQ QKNQDILLVSQGVDPDTFQDFN WYLGEETYGGTRLFTYIPGIQR PQRDGSAMGQRDIVGFPNGSM LLRRAQPTDSGTYYQVAITINSE WTMKAKTEVQVAEKNKELPST HLPNTAGILAAITIGSLAAGALL ISCIAVLLVTRNWRGQSHRMAT TEKPELGPAHDAGDNNIYEVN PSPVLLVSPIDTRINPARPLPT PPHLQAEPENHQYQQDLLNPDP APYQCLVPTS
9611	39979	A	9671	1	558	EGGLRTPSNPYHVDISQTKPCH *TNHCIOKEYSKNYGKYEENGE MFFKEFNQVLTSLNITLESSIL LQIKHIIRNCLLSVEPAISTKHL PYQSFQLFGDFMVDEELKVWL IEVNGAPACAQ*ACTSLCFYKW EVGSAGVIVCGYKCSHFDCCEG GCHSDRRPLGGLYLAGGFAESL PFLFPRV
9612	39980	A	9672	1	534	MVGVDTVTFKVISREERQTQRL GSSSPKRCPLQEFEEHYSSFFG RNCLLSVEPAISTKHLPYQSFQL FGDFMVDEELKVWLIEVNGA PACAQSPAKSL/CATSSSLFLSPP PWTCQQHSRQPTALAEALLSCH GWTRGAGQACLWAFVLSVTC VWNPHHHYHHHHQPYRGWLL LYQNIL
9613	39981	A	9673	624	805	SGGHPGHWLPNPMASPGATT PVGEG/ELQYASLSFQMVKPWD SRGQEATDTECSEIKHR

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9614	39982	A	9674	1	1005	MENRRKVKGEWIAVPQPVKEL RGVLNAATTLSTREILRGKCF QLTSPGTGNEPSHLSWTPRKRSR DGHFGCPDPLAASGARPLRSS AFAAAAADSGSTVQVWDKGV LRVADVWSTIEPVTHVNLGWA AKVGPIISHGSAVSAFSGEGMF RIFSERKTLAKLRDFQNTQLR KLFSEMEKAAGRSQSGVSGFG KGLGDRACEEMSENPKGRKK PKAPQEVSFRENGNWKTPSIF SPKTPRKKKSFSKEELMS/SD/L EETRWQAPSPKPKKSTPKEET VNDPLEAGHK/SGSKKKRKF K/EEPVS/SGPEEAAGKSSSKK K/FFHKASQED
9615	39983	A	9675	1	2742	
9616	39984	A	9676	1	405	MADIPQEARQYRHKQAYAYS QGEGVEDDDERIVRFHTRWPL QNADGTVAEYNGYHVVFALA GSPKADDDTSIYMFYQKVGDN SIDSWKNAGR/VLKSDDKFDAN DPLKQDTQEWSGSATFTGSVF LAFGCYSK
9617	39985	A	9677	3	642	GKGLFDDDEESDLFMEAPQD RQAGASVKESSSKPGKKIPA GAVSVFLGDTDFVGAASVP EPQKPEQPTPRKSPYGPPTGLF FFSAPHSKPSKTRKVQSTADIFG DEEGDLFKEKAVASPEATVSQT DENKARAEKKVTLTSYKLNLP SSETK/TQKGLFSDDEEDS SQSASNLKGASLLPGKLPTSVS WFDDEEDNLLGVQ
9618	39986	B	9678	175	1422	
9619	39987	A	9679	1	3096	MVTHQQAARKPNMTSKPKPK MGPKAHGIFSGTRKNNLEIYMD QTRTGIAKTKLSKNNKSGGMT LPDFKLYYKAIKACGSGMY NSDTDEDEETEPSSGQI TMNKMKLLKAKMKNMNLKSK HITQVSDDEEDDDGCDL FADSEKEEKDIEDIEENTPRKRSRPTSF ADELAARIKGDVGRVDEEPTT VSYEDDRRGKNQDAYTEGGLS TIKTVNCSSSLPSGEAKLRKTL/ KEKKERRTPSDDE
9620	39988	A	9680	1	2925	
9621	39989	A	9681	2	688	
9622	39990	A	9682	1	1005	
9623	39991	B	9683	1	588	

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9624	39992	A	9684	1	2763	
9625	39993	A	9685	2	1075	NSDEELLFSHKLQKNDNDPVDL FAGTKKTKLLEPSVGLFGDDE DDDLFSSAKSQPLVQEKRRVV KKDHSVDSFKNQKHPESIQGSK EKGIWKPETPQAHQVSLHLKP NEPSTRIGKIQANLAINPAALLP TAAASQISIEVKPVLPIELAFVPS EHRRSHGLVESPVLPGSGEAG VSFDLPAQADTLHSANKSRVK MRGKRRPQTRAARLAAQESS EAEDMSVPRGPIAQWADGAISP NGHV*PQLRAASGEDSTEEALA AAAAPWEGGPVPGVDTSPFAK SLGHSRGEADLYDSGDIFSRAP GSQ/SVERPNPRQSRDLPPPGW KQRPSPGKQPRKRPSP*QPKHP LPKGRITSSPW
9626	39994	A	9686	1	4086	VTTPRAAWLGLGFRGSVAVLGLC WQPRSPPSRAAGMMNRITPDQ ELVPASEPVWERPWSVEEIRRS SQSWSLAADAGLLQLQEFSSQ TISRTHIEKKQVDGLIRETKATD CRLHNVFNDFLMLNTQFIENR VYDEEVEEPVLKAEAEKTEQE KTREQKEVDLPKVQEAENVY LQVLDSAFEQLDIKAGNSDSEE DDANGRVLELLEPKDLYDRPLP YLIGSKLFMEQEDVGLGELSSE EGSVGSDRGSIVDTE
9627	39995	A	9687	1930	5781	RAKSPANIIMTGSNSHITILTLN VNLGNSPIKRRHLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLMG DFNTPLSTLDRSTRQKVNKDTQ ELNSALHQAADLIDYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIITNYLSDHSAIKL ELRIKNLTQSR
9628	39996	A	9688	1	3654	
9629	39997	A	9689	1	5127	
9630	39998	A	9690	1	3663	

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9631	39999	A	9691	1	3210	MVKGSIQEEELTLNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRIKNLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTTHSKASRRQEITKIR AELKEIETQ
9632	40000	A	9692	1	3489	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLTDIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKWKREITITNYLSDH SAIKLELRIKNPTQSRSTTWKLN NLLNDYWVHNKMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIPLNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEIETQKTLQKINESR SWFFERINKTRPLARLIKKR EKNQIDTIKNDK
9633	40001	A	9693	1	3235	
9634	40002	B	9694	1	3300	

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9635	40003	A	9695	I	2563	MKAEEKMFFETNENKDDTTNQN LWDAFKAEVEESLNRPITGAEI GAIINSLPTKSPGPDGPTAEFY QRYKEELVPFLKLFQSEKEEI LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKKLIHHDQVGFFPGMQG WFNIRKSINVIQHINRAKDKNH MIISDAEKAFDKIQPFMLKTL NKLGDGTFFKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNILLEVLARAIRQEKEIK GIQLGKEEVKLSLFADDMIIVYL ENPIVSAQNLLKLSNFVSKVSGY KINVQKSQAFLYTSNRQTESQI MSELPTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGKDS LFNKWCWENWLAIWRKLKLD PFLTPTYTKINSRWIKLDNVRPKT IKTLEENLGITQDIGMGKDFMS RTPKAMATKAKIDKWDLIKLK SFCTAKETTIRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNPNPKKWEKDMNRHFSKED IYAAKHKMKCCSSSLAIREMQI KTTMRIYHLPVPRMAIHKSSGNN
9636	40004	B	9696	I	3420	
9637	40005	A	9697	I	3579	MPGHNLKWKLNRGTVLIETGI QLSTSTILGSASEPPSAIPKAQV SSTEKLRLNCIDDLKFPALASEL SRRAKALQIAGFPPMKVPRDTI SKVCLDKTVGKLCHSGEESRK CTLICNNKHYPIDNLQGYKTQ NKFLNKEILELSALRRNAERRE RDLMAKYSSLEAKLCQIESKYL ILLQEMKTPVCSDDQGPTRVVI AQLLEDALQVESQEQPEQAFV KPHLVSEYDIYGFRTVPEDDEE EKLVAKVRALDLK
9638	40006	A	9698	I	4371	

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9639	40007	A	9699	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRLDLSHTIIM GDFNTPLSTLDRSTROKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFPSAPHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYVVHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKA VCRGK FIPLNAHKRKKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLARLIKKKREKNQI DAIKNDKGDITDPTEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKKSPGPDGFTAKF YQRYKEELVPFLKLFSIEKE GILPNSFYEASILIPKPGRDITK KENFRPISLMNIDAKILNKKLA KRIOQHKKLIHHDQVGFPGM QGWFNIRKSNVQIHINRAKDK NHMIISIDA EKAFFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDLF KENYKPLLKEIKEDRNKWKNI CSWVGRINIVKMAILPKNILITL QLLLVLPSTLIPLWLPALAGO
9640	40008	A	9700	1	4449	
9641	40009	A	9701	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDIYRTLHPKSTE YT/FFSAPHITYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLLL NDYVVHNEMNAEIKMFFETNE NKDDTTYQNLWDAFKA VCRGK FIALNAHKRKKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
9642	40010	B	9702	1	2858	
9643	40011	A	9703	1	3354	
9644	40012	B	9704	288	3301	
9645	40013	A	9705	1	3457	
9646	40014	A	9706	1	4794	
9647	40015	B	9707	1	3384	
9648	40016	A	9708	1	3345	
9649	40017	A	9709	1	3780	
9650	40018	A	9710	1	3720	
9651	40019	A	9711	1	3894	

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9652	40020	A	9712	1	3335	MVKGSIQQLTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSLDRSTRQKVNK DTQELNSALHQAADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEITNYLSDHS AIKLELRKIKNLTSRSTTWKLN NLLNDYVVHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKETQ
9653	40021	A	9713	1	3780	
9654	40022	B	9714	1	3855	
9655	40023	A	9715	1	3345	
9656	40024	A	9716	965	4362	TWKGTTSTRCKIMPYRSTRQ KVNKDTQELNSALHQAADLIDY RTLHTKSTEYTFSSAPHHTYSKI DHIVGSKALLSKCERTEITNYL SDHSAMKLELRKIKNLQNCSTT WKLNNLLNDYVVHNEMKAE IKMFFETNENKDTTQNLWDA FKAVCRGKFIALNAHKRQERS KIDTLTSQLKELEKQEQTHSKA SRRQEITKIRAELEKETQKTLQ KINESRSWFFERINKIDRPLRLI KKKREKNQIDT
9657	40025	A	9717	1	3921	
9658	40026	A	9718	1	3988	MTGSNSHTILTLNINGLNSAIK RHRLASWIKSQDPSSVCCIQETH LMCRDTHRLKIKGWRKIYQAN GKQKAGVAILVSDKDFKPT KIKRDKEGHYIMVKGSIQQL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAAD LIDYRTLHPKSTEYTFSSAPHH TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAILKLELRKIKNLTS RSTTWKLNLL
9659	40027	A	9719	32	583	GPHGAFTHGRR/FRGRDPYEGP RRTGKRKQKSARGCIVDANLSI LNLVIVKKGEDIPGLTDTMVP CHLGPKRASRICKLFLSSEDD VHQCVVRKALNKEGKPRTKA PTTKYLVTPHVLQHEWWHIAL KKQRIKENKEVAEYAKLLAK RMKEAKEKHQEQIAKRRRLSSL RASTSKSESSQK
9660	40028	A	9720	318	605	

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9661	40029	A	9721	1	649	MGLKGQGVVEGGLLRQSGSVSL QPLSREDLGRSQSESLGPEFQGL WEWLPVERVERENLSDYCVLG QRPMHLPNMNQLASLGKTEQ SPHSQIHHSPIRNQVPALQPM SPGLLSPQLSPQLVRQIAMAH LINQQIA/S*PAGSPASSSHQPA VPEPS/IPSPEQLSQSQPTLPWKS LQISTSKSEMS*RGVPVCPKLSLQ EWHSTAHRLNLTWKD
9662	40030	A	9722	15	272	KPQWPGIPSGPPPGSCFKC*K GHWAKECLQPRIPKPCPICAGP HWKSDCSTHLAATPRAGTLA QGSLTDSFPDLLGLAAEG
9663	40031	A	9723	96	531	VQPADLLRPLHTDTCNIWCQRP GTEGLLRETGPLSS/PLTP/MRRS TYDLRSSDQPKELTDFKSGSC FKCRKSGHWTKCQQRIPPKP CPICAGPHWKSDCPCPAATPR APGTLAQDSLTDSPFDPKGSLL DYFPDLLCLVAED
9664	40032	A	9724	3	567	GRLQTGADPAWRVHGTWRSTS AADAIDQMVPWPVMTWRLNE RHYGGTLTLGKAETAAKHGEA QVKIWSNISKDRRYADLTDDQL SSCESLKDTIASALPFWNKEIVP QIKEGKWVLIAAHGNSLRGIVK HLEGLSEEAIMELNLLTGPIVC KLDKSSKPIRCMEFLGDEGTL KAMEVAQAQKAKK
9665	40033	A	9725	2	801	GGVPHQPAAAMAAYKLVLIRH GESAWNLENRFSGWYDADLSP AGHEEA KRGGQALRDAGYFED ICFTSVHLYAIRTLWTVLEML SEMWLVPVVRTWRLNERHYGG LTGLNKAETAAKNGEAQVKI RRSYDVPPPMPEPDHPFYSNISK DRRYADLTEDQLPSCDRLKDTI ATALPFWNIEIVPQIKEGKRVLI AAHGNSLRGIVKHLEGLSEEA MELNLTGPIVYELDKNLKPI KPMQFLGDEETVRKAMEVAQA QKAKK

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9666	40034	A	9726	3	573	VAPVVQVWKEMHKLLPFSPDS VVTHGDISIDSGIFDQDKLIGRI DVGRVGIACGCQDVAIVWNYL AACSVDRNTRCIRMPNCRPEVE ETPGLKEEKELSQPKEGEATDL KKEVEKISSSEEEETVNLKEEVE KIPPPPEETMDLKEEKEIIPPPEL RDQKLHVLKDLPEVSAVPHK DSLFIIGQLTTVPV
9667	40035	A	9727	2	685	TLYCRVFLLDGTEVSVDLPKHA KGQDLFDQIVYHLDLVETDYF GLQFLDSAQVAHWLDHAKPIK KQMKIGPAYALHFRVKYYSSEP NNLREEFTRPKITKMDFFKSKL TLVVVEDDDQGREQHTFVFR LDSARTCKHLWKCAVEIHIAFF RLRTPGNSKSNRSDFIRLGSFR FSCFS/ERENAHSTGNSPALRER PGDGSVSREGRWVDEGWQP RP GGRGQNALCSVP
9668	40036	A	9728	1	419	MSKFGGRATRGLRKPEVGDVIRT IVRAGLAMPGPPLGPVLGQRRRA SINQFCKEFNERTKDIKEGIPLL TKIFLKPDTFEEKIGQPTVSYF VKAAAAGIEKGARPT/DLSSEFEA AFQKEQAIFLAAQKKADLATQ EEAAKK
9669	40037	A	9729	97	826	SQLPRIMSKLGRAARGLRKPEV GGVIRAIVRAGLAMPGPPLG'N VLGQRGVGSINQFCKEFNERTKD IKEGIPLPTKILAVKPDRTFEIKI GQPTVSYFLKAAAAGIEKGARQ TGKEVAGLVTLKHVYIARIKA SGLRAFAIQDVPPLSSV'VRSIGS ARSLGTSRGERTSSSEELAAAFQ KERAIFLAAQK'EA DFGLPKKE AAKEIDPLPHQLPDFQKEVSLQ KLCPMRGRRSHQYDDGFHDFE
9670	40038	B	9730	273	418	

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9671	40039	A	9731	69	1565	RRRRFQASGAAAMLSSRAEAA MTAADRAIQRLRTGAAVRYK VMKNWGVIGGIAAALAGIYV JWGPIITERKKRRKGLVPGLVNL GNTCFMNSLLQGLSACPAFIRW LEEFTSQYSRDQKEPPSHQYLS LTLHLKALSCQEVTDDEVL ASCLLDVLRMYRWQISSFEEQP HFQDGLVQLRVGVVCRHYPEK WEAASWTSQNCGADDAHFLF HVITSSLEDERDQPRVTHLFD VHSLEGHPLTLDHCLHHF/TQSE SVRDVVCNCTKIEAKGTLNG EKVEHQRTTFVKQLKGLKPQ CLCIHLQLRLSMVQPGTPLKRHE HIVQFNEFLMMDIYKYHLLGHK PSQHNPKLNKNPGPTLE/HAGW AGSPHTSSSESARGPQNTDFYEW RLLPIFIANA VSADALPSPCSR LQLLHIPLPADGQLSSTMGDMA LWDTLFIYRSPPSARNPLSTSN QWLWVSDTVRKASLQEVLS SAYLLFYERVL SRMQHQSQEC
9672	40040	A	9732	1	1393	PLQLQPRHIGAIQLGPLLQRV QAIRLGSFHMVLSLW/VMQSAR VEILEPPRLQRMYGKAWRISL CPQGLSTVMRSELTASSTPQVQ EILPPQSPEYLGPKGITERIHKIM HVKGKLAKLPANRNQSPGVSG KRLVNCVSASAVDSEPAAVPEP DVCAGIVIKKQCFPIARCNKT KQVDSIPHRA YAKSPFFFAVV VVTSESKDPRVKQNPHTHLLAE GSNAAHFHKT KISQSLKWLPVG YLNSTTYEYRDLTKGLSLCSL LLGVEADIPSMAGLHVHRHLMQ VPQPCIAFAVSSPLHQGGKET EDAWSFHIPSTIHRWPTSPVQL SSLRASTQLLCLHINLAKCFIWG ILAQVLSCHHHRITQFVGM LTF VCAGDSSKLSPDIRTLVRR LTS YLVASVLLKSKQMALCSASRI LDVSVSPGDHVASEARARCAP DLVAPRPMPIHQNGSLEWTEE
9673	40041	A	9733	44	282	FSCLILHDAFPCLILHDAFPCL CSVTGSLVLSRVPLRGTHQKSA IATSTKIALSNM/KILKHHTDAY FKKQQLFFDVSKK

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9674	40042	A	9734	3	381	EQQGQR/SQWWRGAAARVSRV KRVLCV/VVECPK.SACPDVDM YWAALQRLASLLKADGNLVT MAALHSHYMGSKKFFGLHPE KETVEKAMQEAGCQVQRCA/SI SCSETCSINDGICFVAACKGPSV
9675	40043	A	9735	2	209	CRHSTQHCVS/HHGHSQYK/DS HQHYSHYHHHHNPHHHHQSPY LHHHHYDCHLHHHHHNDHYH RHISVYDI
9676	40044	A	9736	197	3348	RVVQTDMIKGMLETSLKISLD QAFIRJCLNSTCFRPKGKLVK/C EKSINSASLVSTSQRI.SCRPKTHI SKNYGNNFLNSSLLTQKQEVH MREKSFQCNESGKAFNYSSVLR KHQIHLGAKQYKCDVCGKVF NQKRYLACHRRCHTGKPKYKC NDCGKTFSQELTLTCHHRLHTG EKHYKCSECCKTFSRNSALVIH KAIHTGEKSYKNECGKTFSTQ SYLVYHRRLLHTGEKPYKCEEC DKAFSFKSNLERH

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9677	40045	A	9737	1	1665	MAGACWLMAFQYWVLKLLVV KSA/SWPRQSSLKWNWNFKGC QDLETWGKKETKFFYGYRRNE EAQKYSRIPKRPD*WCHCWQ W**WLMAFQYWVLKLLVVK AYGLVKALSNIGISKVAKTW KPGGKKRLENFMAIEEMKKHR STHVGFENLTNGATAGNGDD GLIPPKSRTPESQQFPDITENEE YHRDFSKLCLGSAANGVVHVE VKMCVYNGKGERQEEMKGLI SMNLVVEEMKKHESNNVGLL ENLTNGVTAGNDNGLIPQRKS RTPENQQFPDNESEYHSLGDK SKTSFQNSNNNNKQQEQQQ NPTFSNTRKLTLYKAPIPPSIIL SGCPNINDSNWQEIIEHGMQTA GLPTRPLSHGLQKQGAARCLG CKCSEPFQSLILQKAKTNTQK WQATYPKSQNEQLVPSVGKSY RCSTPAQPMKTAUGHKPKCAT GAELPKALGAQPLHPCALDVG QGFKKGNFGAVGLNGLLGLF HGVSGVLLVPGDGGISEGVV REDLMCGVWSAGTWSVGTA RCLEKPGALHVIEGPLDSWDGP VMPNGPVKSRQSSCLDGPGR CSEILTGQSHGNKKPARASSKS SQSINDRPLAVLTNQYQCEQLA SERQPSSNSCSIRIDSA
9678	40046	A	9738	1	115	RRTARGPQQTSDGLGTSPCRN ASEHTADILELSTLIV*RRQ*ICL CLDFLYY/LIPEGRFCFRACDLV HNFDTIILQQHRTLTSSQGVDDF LKAKATFKASDFIDALVLSKVA SPRILIQGGRMGA*DQVSDQAS VYGRCSSSGAEEAKRPSAWL LLGYDSRASGLY*ILYNLTKHP D/YRECCQPMQES*S*RRAR GPQQTSTDGLGTSPCRNASEHT ADILELSTLIV
9679	40047	A	9739	1	506	MVIVGLAAGVLLVPGDGGILS EGVVRDELTCGVWSAGTWSV GTAERCLEKPGALHVIEGPLDS WDGPVMPNGPVKNHKGEEQ VPSKHPQMALEICLCLDFLYY/L IPEGRFCFRACDLVHNFDTIILQ QHRTLTSSQGVDDFLKAKATFK ASDFIDALVLSKVASPGS

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9680	40048	A	9740	1	380	KFSRSPVNMLRIVKPCITRG/YP NLKSVNKL IYKHGRGKINKKRI ALTDNTLIDQSHGGYGIICIEDLI HELYLWPKLSSPQSGMKKKT THFVENGAAANREGQIHRLLIR MNCGVYRDYFSLVS
9681	40049	A	9741	3	279	
9682	40050	B	9742	23	197	
9683	40051	A	9743	2	402	CGDRGALRPPSCAGRSRGPGR PPRPPRLPWHAPPAHGA PLARPGARARRSEKPPSEKPLRRSS PRAQEEGPGPEPPPELALLPPPP PPPTPA/PRRPRP/PGPRAAG ALGDVPEAAEAYLERVPPSSC
9684	40052	A	9744	1	660	
9685	40053	A	9745	1	1035	
9686	40054	A	9746	1	2575	MRAAGGAMLCGKQGRWDPEG EGAHPGFIPKLACSSQGVFRQL HLRTAVTAAVSRHFPQPSWRY DPGPQFLGEKSGFKPRCPGVAV CQFQSMNAFIHWFRNKAWASS CDRIKIPVPEATFVEPNCLPGEI GQLLRQLQSGRNLKEWLREQF CDHPLEHCEDTRLHDAAVYVD LQTLRSLQEEYSRINEKSV WCCGWLPCTPLRIAATAGHGS CVDFLIRKGAEVDLVDVKGQT ALYVAVVNGHLESTQILLEAGA DPNGSRHHRSTPVYHASRVGR ADILKALIRPAACDRSVSITADT HFRYLIKVVAMPFRSRKAIPFLS SCTAWRCADQLQIPVPLVDT SGSGKTVSNVITESHNSDNEED DQFVVEAAPQLSEMSEIEMVTA VELEEEKHGGLVKKILETKKD YEKLQSPKPGKPSATGWHG ECLGTRNRAQALVGWGLY SERHSGMLRAITLKYKGGGRQ GIQA/AWKSEIFRSRAAPENPL GRWGFALLSKIIIS*ROVLKLFH SLSPQARVNSRFPGSGKAGLGL WMEGARPSGHVPKERVVAGK RPQVPTKAHHTCVRETAGNQE GNGEGALQQEQRLGVAEAGSN GEGALQQEHRITDCAVEPLKAE LAELEQLIKDQDKICAVKANI LKNEEKIQKMERSLFSAWKKE KDIVSKEIEKLRTSIQTLCKSAL

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9687	40055	A	9747	2	1739	MKGLYTDAEMKSDNVKDKDA KISFLQKAIDVVVMVSGEPLLA KPARIVAGHEPERTNELLQIHGK CCLNKLSSDDAVRRVLAGEKG EVKGRASLTSTRSQELDNKNVRE EESRVHKNTEDRGDAEIKERST SRDRKQKEELKEDRKPREKDK DKEKAKENGGRHREGERERA KARARPDNERQKDRGNRERDR DSERKKETERKSEGGKEKERLR DRDRERDRDKGKDRDRRVKN GEHSWLDREKNREHDKPEKK SASSGEMSKLSDGTFKDSKAE TETEISTRASKSLTTKTSKRRSK NSVEGDSTSDAEGDAGPAGQD KSEVPETPEIPNELSSNIRIPRP GSARPAPPRVKRQDSMEALQM DRSGSGKTVSNVITESHNSDNE EDDQFVVEAAPQLSEMSEIMV TAVELEEEKHGGLVKKILETK KDYEKLQQSPKPEKERSLFES AWKKEKDVSKEIEKLRTSIQTL CKSALPLGKIMDYIQEDVDAM QNELQMIVHSENRRQHAELQQ EQRTIDCAVEPLKAELA/ELEQ LIKD/QQDKICAVKANILKNEE KIQKMVYSINLTSRR
9688	40056	A	9748	93	800	RANLPTQPYCHCLGAPAAALTRI VGGSAAGRGEPWPQVDLWLR RREHRCGAVLVAERWLLSAAH CFDVGDPK/QWAAFLGT/HVP ERRGGAVERVARIYKHPFYNL YT/FDYDVALLELAGPVRR/SL VRPCLPEPA/HATPDGTRCVIT GWG/YGS/GAQLQKAAVRLLS EQTCRA/LYPVQISSRMLCAGF/ LQGGVDS CSGDAGGPLACREPS GAPVPGQPRTCTAPARWPRRSA LSPAPL
9689	40057	A	9749	107	378	NLVP*LRSGD/SPLGDQSPVLLIF TP*ERSTYNLKSDD*PAQETS/PP ISNPDPDEN/PDCSTHLAATPRA PGTLAQGSLTDSFPDLLSLAAE D
9690	40058	A	9750	2	286	

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9691	40059	A	9751	215	631	GTQSCNQKVLNSANNLQELGIG PKFQMRLLKPQLAPMQPNRGTS LGRSIPCPPVLCMRKIHLPQV LRPTSPRNISPLNRVSEVSDHA GTPALVLHP*RVPLFWGRGK YPNPFSLCLYPFSAFLGGKKHP TPSPSP
9692	40060	B	9752	1	933	MLPNRLGSSSETITDAELRVTLT VEELNGLRAVQDMFVKQILKA ARSLRVITIPNLKYPGTQTLRKA AAPDPNTTGLIFLEKLCEIAAAI ASYVAVPSLEINHRKKANPNLL LRRSGSGSVSLQLLAEKIWEGV REPWARVVLVWEWLPDQNPPLS GLTKSNSTRHELPHGRAIQLH LSGWELWSEPSNLLDLVVTGDI ENTSLAPEDPTFLTMPSGSHCPE SPSDGPGLLSSVALVWFLVED WLSRKRLSEPAELPLGKAGEV VFDTLPLPSRRTHFSGFLGHFCY SFSDBGYSTNRAAPDGSSTKAKE HGSCRKQPPLYTLQCRDKAGLR VHGNSPVSAYGWLFSEERPGKP TRTPFSWEGDPPGLLTADETSL VVHLELPVFPFLKRAAGNSRHS GMGSPLEAEEAYSTVVMADVS QYPVNEPLVAAVVCQEPERAQ PDVHFFQ/CLRLGGHAGGVAAR PLPAAETPPLQRRPSVRA*SAP* SGARAADDPRTTHS/QAEEAQR PEPDILNHVFDDVESF/VRLQK SAEAAARVLEHR/KRGRSRRRRA AGEGLLTLR/AKPPSEAEYTDV LQKIK/HAFSLLARLRGNIADPS/ SSELLHFLFGPLQMIV/QPSGGP EFASSVRRPHLT/RDAVALLRD NVTPRE/RLWTS LGDSWTRPG LELSP EEGPPY/PEFFSGWEPPV TDPQSAAGRTO LRNSYSTSGGA
9693	40061	A	9753	1	2283	
9694	40062	B	9754	1	930	
9695	40063	A	9755	76	247	QLKTDTAQLPRKLFVESHNYH CSWPGQLQSGLPHYSGYHTSS* LYLSDPADIHPIPS
9696	40064	C	9756	95	301	
9697	40065	A	9757	352	545	DILNHVFDDVESFVSRLLQKSAE RPGCWRRRTRPQKPA PGVAG* RGTW RGI*TPPDLFQMSP LSP
9698	40066	B	9758	406	602	
9699	40067	A	9759	1	543	

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9700	40068	A	9760	2	138	LDDFVGRMLTLMGCPPEPC/PRVPSPLREGRKTQAALSVRRGRSHRR
9701	40069	A	9761	1	417	
9702	40070	A	9762	830	1029	YLPHLSLRLLPCCPPLPLSKPNSLP*LRPSLLQRDYL SIFILINMPSISSTTLLLYGQKEISSLH
9703	40071	B	9763	40	980	
9704	40072	C	9764	419	700	
9705	40073	A	9765	271	1185	
9706	40074	A	9766	2	1655	RGRSRRRRAAGEGLTLTRAKPPSEAEYTDVLQKIKYAFSLARLRGNIADPSSPELLHFLGQLQMI VNTSGGPEFASSVRRPLVTSDI AVALLGNNVTPRENELWTSLGDSWTR/LRA/EELSPEEGPPYRPEFFSGWEPPVTDQSRAWEDPVEKQLQHERRRRQSQAPSGRCQWVTGDLPESEPEQLESETAGKWVLCNYDFQARNSSEAVRSSSGDVLAEVLDDSR:KWWKVRDPAGQEGYVPYNILTPYPGRLHH SQSPARSHDSTPPPPAPAP/VP/LPPALARPRWDRPRWDSCDSL NGLDPSEKEKFSQMLIVNEELQARLAQGRSGPSRAVPGPRAPEPQLSPGSDASEVRWLQAKGFSSGTVDALGVL TGAQLFSLQKEELRAVSPEGGARVYSPVTVQRSLLEDKRESSELEAVMEKQKEEGRRGGNGGHLTCQAPFAKSDEAPWENGPPQTLPNSGSRSSGWPICSGPGLPPLPVDRLNDPCCSPSGEDLDWLGVGRAWRQSTESASRPGRGCSGALSIVILRPSINMPPCLAKKKKK
9707	40075	C	9767	565	762	
9708	40076	A	9768	1	401	SPLRPLLLALALASEPCAQGACPASADLKHSDGTRTCAKLYD/CSDPY YENCCGGAELSLESADLPYLPSNWANTASSLVVAPRCELTVWSRQGKAGKTHKFSAGTYPRL EEEYRRGILGDWSNAISALYCRCS

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9709	40077	A	9769	1	1489	MPQLLQNINGIIEAFRRYARTEG NCTALTRGELKRLLEQEFADVI VKPHDPATVDEVLRLLDEDHT GTVEFKEFLVLVFKVAQACFKT LSESAEGACGSQESGSLHSGAS QELGEGQRSgtevgragkgqh YEGSSHRQSQQSGRGQNRPGV QTQGGATGSAWVSSYDRQAES QSQERISPQIQLSGQTEQTQKAG EGKRNQTTTEMRPERQPOTREQ DRAHQGTGETVTGSGTQTQAGA TQTVEQDSSHQTGRTSKQTQEA TNDQNRGTETHGQGRSQTQSA VTGGHAQIQAGHTHTPTPTQVE QDSSHQTGSTSTQTQESTNGQN RGTEIHGQGRSQTQSAVTGGHT QIQAGSHTETVEQDRSQTVSHG GAREQQGTQTQPGSGQRWMQ VSNPEAGETVPGGQAQTGASTE SGRQEWSSTHPRRCVTEGQGD RQPTVVGEWVDDHSRETVILR LDQGNLHTSVSSAQGDAAQS EEKRGITARELYSLRSTKP
9710	40078	A	9770	2	3031	
9711	40079	A	9771	6288	6584	TAVSLPAPLFSDLQIPPRKRSK ETVMAPENLTN*RAPPOSSARV FQ*EALYVPGP*ALDPPEVCSSY SSVCGLHLQLSHSSSESSSTLGS LGSFQML
9712	40080	A	9772	884	1032	ESRPNTTTLRKTSSWSFQS*TA TQTKGPRDPGASMTKPGATSER SASG

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9713	40081	A	9773	1	1457	RSAQKEKTAAKEQQGEKTEVL SSDDDAPDSPVILEIPSLPPSTPP STPTYKKSLRLSSDQIRRLNLQE GANDVVFSVTTQYQGTCTCKA TIYLWKWDDKVVISIDIGTTTK SDALGHILPQLGKDWTHQGITS LYHKIQLGQLVMPDARPERP MDGMKVRAFMERLLFVRRGT DKRWSVRMYVTCSSSNLNEE IYINQVVIQANMKLQLWAMRT DDARGLSSLGDTSPSPSVVP GLQPKPAPVCAGDALLQAQIPG VLLGTLFSGAAFYSGLYGGSEQ FLDHLLHPARAAPPPPLVGP APRVPGSPSAPELAGPAVWRFA AAASRGVVVAASGWGRGGEA SQTFTQTKPEGGTRHPTRMPLG STGCIFFGTLEKSQGYERYNAM RADPALCFLEKVGMPDEKSLSA EQGVTDGTSIDIPERARQNEEQ TSFGLLWPTPQGSTDHIDNHPR ERYPEMRWELDVLPDIDYMEI PVDWDDA
9714	40082	A	9774	3	4804	KRLENIQKTLVAFSEA VWMQ PSVVLDDDLDIAGLPAVPEHE HSPDAVQSQR LAHALNDMIKE FISMGS LVALIATSQSQSLHPL LVSAQGVHIFQCVQHIPPNQE QRCEILCNVIKNKLDKDKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLV TTLDFQKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYELFANLPIRQRT GILLYGPPGTGKTL
9715	40083	A	9775	1	897	
9716	40084	A	9776	486	800	CLQLSWLSLQQAQVHWLGRA VHTAF CMD*VLLFGESFGFLVR LTPGILLGLL*P*KQGHCHSVSL GEVRI/CGHS*TFITSWAFSVLQ GKASAPVKVSTQNSRY
9717	40085	C	9777	332	497	

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9718	40086	A	9778	1	6504	MWGSRLAGAGGGGA AVTVA FTNARD CFLHPRRLVAQLHL QNQAIEV VWSHQPAFLSWVEG RHFS DQGENVAEINRQVGQKL GLSNGGQELHVAVSLEQLHLDQI RIVFPKAIFFVWVDQQT YIFIQI VALIPAASYGRLETDTKLIQPK TRRAKENTFSKADA EYKLLHS YGRDQKGMMKELQTKQLQSN TVGITESNENESEIPVDS SSVAS LWTMIGSIFSFQSEKKQETSWG LTEINAFKNMQSKV VPL
9719	40087	A	9779	1	5421	
9720	40088	B	9780	124	273	
9721	40089	A	9781	84	493	IHANNC S*L*K AALNFV LLLLQ KRL*GEKHLTLSETGREGNKVG GVGS*VTGTGQETELGSLGRCH SPLSVLHLLPFFS/LLGRTHLNA LLIRDYFASSCKYL*EVLLSLSD GSG*NLM SVWMAGNSSAEYVR
9722	40090	A	9782	1	5954	MDGMT EACIKGGIEAC YAAVS CVCTLI.GALDEL SQQGL SEGQ VQLLLRLLEELKDGA EWSRDS MEINEADFRWQRRVLSSEHTP WESGNERSLDISISVTTDTGQTT LEGELGQTT PEDHSGNHNKSLK SPA IPEGKETLSKVLETA VDPQ DVVQRSHTVPYPIDITN FLSVDC RTRS YGSRYS ES NFSVDDQDI.S RTEFDSCDQYSMAAEKDSGRS DVSDIGSDNCSLADEEQTPRDC LGHRSLRTAALS
9723	40091	A	9783	1	2217	
9724	40092	A	9784	1	1360	
9725	40093	A	9785	1	777	MNIKNPIAAQHLDNLP IVKASSI GMTWGLVRNGVSAPTQKSCIRI HILARCTGAVAF EKL YFKSPAN QAHARKVGKQVQDCYIGRDIV AKAGAIHHLNVGKGTPVCCPLL EEGINSEVWTT EGQYGRAK'NA RPVQVKLKDSTSPFYQRQYPLR PKA/LTKGFQKIVKDLKAQGLV KPCSNPCSTPILGVQKPNRQWRJ EAL.KLQIVLQMEPQM QMSMTKI YHGPI.GRPASPCSDVNDIEGNP TKEISTAPPLLCPSNAGSS
9726	40094	A	9786	1	415	

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9727	40095	A	9787	1	451	MVHFISRLLYSDGLDVPGDPIQ DSDDAALSVSPHCSPDSRVSTT KHLWVSPRLLRVAVRVKNDIT NFSWWNDGLAFCALLHTYLP AHIPYQELNSQDKRRNFMLAFQ AAESVGIKSTLDINEMVRTERP DWQNVMLFVIAIYKYFET
9728	40096	A	9788	3	605	DEWPPERIIQYNEPTTWH/EDGL WGYRTRFYMINQIIW/LQAILEH TNKTDRAITLAQQETQMRNAI NQNRALDYLPAEAGGICGKF NLTNCLHVDQDQGVVEDIVR DMIKLSHVPMQVWHGFDPGA MFGKWFPVLGGFKTLIGVILVI GTCLLPCLLPVLLQMIKSFAT LVHQNASEQLYYMNHYSVLQ EYMGS
9729	40097	A	9789	3	876	GAGGFGSPMDIFDMFF/GGGG RMHRERRGKNVVHQLSVTLED LYNSATRKALQKNAICDKCE DRGGKKGVEYCPNCRGTGM QIRIHQIGPGKVQIQSVCECQ GHGEQISPKDRCESCNGRKILR EKKILEFHIDKGMKYGQKITFH GEGYQEPGLEGEDIIIVLDQKD DAVFTROGEDLFMCQIVKHGDI KCVINEGMPYIPRYPEKGRLEIE FKVNLPENDFLSPDKLSLEKL LPKRKEVEETDEMDQVELVDF DPNQERWHHYNGEAYEDEH
9730	40098	A	9790	199	410	
9731	40099	A	9791	134	1369	KMVKETTYDVLGVKPNATQE ELKKAIRKLALKYHPDKNPN EGEKFKQISQAYEVLSDAKKRE LYDKGGEQAIKEGAGGGFGS PMDIFDMFFGGGGRMQRERRG KNVVHQLSVTLEDLYNGATRK LALQKNVICDKCEGR/SGRFKE QGAVRSACPNCRGTMQIRIHQ IGPGM/VQIQSVCECQGHGE RIRPKDRCKSCNGRKIVREKKIL EVHIDKGMKDQKITFHGEGD QEPGLEPGDIIIVLDQKDHAVFT RRGEDLFMCMDIQLVEALCGF QKPISTLDNRTIVITSHPG/QIVK HGDIKCVLNEGMPYIRRYPEAK GRLEIEFKVNFENGFLSPDKLS LLEKLLPEIRKEVEETDEMDQV ELVDFDPNQERRRHYNGEAY EDEHHPRGVQVQCSDLLMGVP

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9732	40100	A	9792	3	337	GYSQAPRRK/GGECSSLSQPFSSK AQPDAAASLEPPSLETPAGRTPA TLTQGSPPAAVREPLSPGHNAK ARLRSRPARPPWIPDPDPFGHFV TDFCAPESLQGETRTSRSFQLL
9733	40101	A	9793	1	346	SGS*QLQMCGLPAHTQDETHI SSCGQLDLALPPLLPLPPSLN TLPPQGLCTC
9734	40102	A	9794	1	1110	MEGEEAAGAAGDPVGHRRKCC GFHPVCEREAPSTFAAVMIHLV VQYIGEICRYLLKQPVREAERR HRVRLAVGNLRPAIWEEFTER FGVRQIGEFYGATECNCSIANM DGKVGSCGFNSRILPHVYPIRL VKVNEDTMELLRDAQGLCIPC QAGEPGLLVGQINQDPLRRF NGYVSESATSTKIAHSVFSKGD SAYLSRDALMMDELGYMYR DRSGDTFRWRGENVSTTDVEG ELSRLLGQTDVAVYGVAVPGK LGLQGVLRLRHGVEGKAGMAA VADPHSLDDPNAIYQELQKVLA PYARPFLRLLPQVDTTGTFFKI KTRLQREGFDRQTSRDLFFLD LKQGHYLLPLNEAVYTRICSGAF
9735	40103	B	9795	28	376	
9736	40104	A	9796	3	461	VRQCRGIRDPIYRFFKRTLEFIA AEGHTGQFVYCGKKAQLNIGN VLPVGTMPGTVCCLEKPGD RGKLARASGNYATVISHNPETK KTRVKLPSGSKKVISSANRAVV G/VVSGSS*MLRAVGEHAVSAG GQPVARLGPWNSITCCSKTWV
9737	40105	A	9797	1	701	MQEVPMGFERNYPHAITFKPS VPVSRSLDYAPLPGGVFRDPYW FKKRTLEFIAAEGHTGQFVYC GKKAQLNIGSVLPVGTMPGMI VCCLEKPGGRSKLSWASGNY ATAISHNPETKKTRVKLPSGSK KVVSSANRAVVGVVAGGGRT DKPILKACQAYHKYAKARNW WPRVVDVAMNPMHEHPGGGN HQHIGIPSAI/SRDDPAGCKMGL IAARQTGRLGWTKTQKEKEN

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9738	40106	A	9798	1	910	QCGGIRRTGPPVAMGRVIRGQR KGAFSVFRAHVKHRRGAARLR AVDFAERHGYIKGIVK/DAERW PGREGKGRPAGTPHSRRLCPQD IIHDRGRIGAPLA/RVVFRDPYRF KKRTELFAAEG/IHTGQFVYC GKK/AQ/LNIGNVLPVGTMP*IG TIVCCLEEKPGD/RGK/LARASG NYATVISHNPETKKT/RVKLP GSKKVISSANRAVVGVAAGGIG RIDKPIFEGWPGRYHKYKAKR NC**PRIRGVAMNPVEHPF/GGG NHQHIGK/PSTIRRDAP/AGRKY GLIA/ARRTGRLRGTKTVQEKE
9739	40107	A	9799	1	405	LEISIMAAISISGYTFSVACFHSA NSNADHEGFLGGEVRQEETFSS DSQISNTEFLQV/KVIGWYFR RNTQQQMSYREQVLHKQLTRI LGVPDLVLLFSFISTANNSTHA LEYVLFRRNRRYNQRISLAIPN
9740	40108	A	9800	1	232	
9741	40109	A	9801	1	420	
9742	40110	A	9802	3	1272	EISIMAAISISGYTFSVACFHSAN SNADHEGFLGGEVRQEETFSSID SQISNTEFLQVIEIHNHQPCSKL FSFYDYASKVNEESLDRILKDR RKKVIG/WYFRFRNTQQQMSY K/SEQVLHKQLTRILGVPDLVFL LFSFISTANNSTHALEYVLFRRN RRYNQRISLAIPNLGNTSQQEY KVSSVPNTSQSYAKVKEHGT FFDKDGVMMKDRAIYQVYNAL QEKVQAVCADVEKSERVVE QAEVNKLRRQITQRKNEKEQE RRLQQA/VLSRQMPSESLDPAFS PRMPSSGFAEGRSTLGDAEAS DPPPPYSDFHPNNQESTLSHSR MERSVFMPPRPQAVGSSNYAS TSAGFEVFLGSGADLPPQRAA GDSGEDSDSDYENLIDPTEPS NSEYSHSKDSRPMAPDEDP PRN
9743	40111	A	9803	3	513	GAYGGGYGACDNYNGYGYGF GSDRFGRDLNYCFSGMSDHY GDGGSTFQSTTGHCIV/VHIEIGP DGRVTGEADVEFA THEDAVAA MSKDKANMQHSYVEPFLNCAA GASGTA YGSGMMGGMGLSIQS SYGGPASQLSGGYGGGYGGH SSMSGFDQVLQENSCDFQSDIA
9744	40112	B	9804	73	1127	

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9745	40113	A	9805	1	3647	MRVRHVGGAALELLTSVRESR ATSAFQVSPYEDEPCRPCNCDP VGSLSVVCIKDDLHSDLHNGKQ PGQCPCKEGYTGEKCDRCQLG YKDYPTCVSCGCNPVGSASDEP CTGPCVCKENVEGKACDRCKP GFYNLKEKNPRGCSECFGVS DVCSSLSWPVGQVNSMSGWL VDLISPRKIPSQQDALGGRHQVS INNTAVMQRLAPKYWAAP EAYLGKGLTAFGGFLKYTVSYDIP VETVDSNLSMASHADVIK
9746	40114	B	9806	141	236	
9747	40115	B	9807	66	266	
9748	40116	A	9808	1	330	
9749	40117	A	9809	1	792	
9750	40118	A	9810	129	311	
9751	40119	A	9811	3	538	
9752	40120	B	9812	96	536	
9753	40121	A	9813	1	2090	MSSNQKSPITKTSKSPGTANVLD VNNSTLMFVGGGQIKKSPA VKVTHFGKCLGEALNGKSI GLWNYIEREGKCRGCGSSQ NEDPSFHFDGSGYSVVEKSL PATVTQIIMLFNTFSPGGLL LYLGSYGT KDFLSIELFRGR VKVMTDLGSG PITLLDRR YNNGTWYKIAFQR NRKQGV LAVIDA YNTSNKETK QGET PGASSDLNRDKDPIYVG GLPRSRVVRGVTTKSFVGC IKNLEISRSTFDLLRNSYGV RKGC LLEPIRSVSFLKGGY IELPPKSLS PESEWLVTFA TNSGILAA LGDVEKRGDRE EAHVFFSVMLI GGNIEVHV NPGDGTGLRKALL HAPTGT CSDGQAHSISLVNRNR IIT VQLDENNPVEMKLGALVES RTINVSNLVYGGIPEGE GTSLLT MRRSFHGCIKNL IFNLDHGFVD SVEQKRFC GVPSCARESARGRA QAQD TAQELQSEACDKRSPQP PGKGKHMVGVLQPSLFQKN LLL FYDEVLDLQPNKEKEFS V GANHNAFMVVHGWGCGF CLF PSGEWLASPCFVHPQ ITIHPPDR FQASVTDEGYL FLAKPTQPAPA CPLDPIR PLLGHAQQPLLTQD HTDAA VTPSSAVTARAANYCA GGRNERKKTGREKRHLTG GPC VALRTFTVLHISHHQV DGIRA GYVQRDGLQPTNRQ IVM

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9754	40122	A	9814	1	8705	MRGGVLLVLLLCVAAQCRQRG LFPAILNLASNAHISTNATCGEK GPEMFCKLVHVPGRPVRNPQ CRICDGN SANPRERHPISHAIDG TNNWWQSPSIQNGREYHWVTI TLDLRQVFQVAYVIIKAANAPR PGNWILERSLDGTTFSWPQVYA VSDSECLSRYNITPRRGPTTYRA DDEVICTSYYSRLVPLEHGEIHT SLINGRPSADDLSPKLEFTSAR YIRLRFERIRTLNADLMTLSHRE PKELDPMLPR
9755	40123	A	9815	1	564	MGDLEDKLVFPFIFELPRHLDQN SEQLKQVQRELKELHETCQQ HQLCQASTSGEPKERDKEEGK DSKPRSLRFTWSMKTTSSMDPN DMMREIRKVLDAANCDYEQKE RFLFCVHGDARQDS/LPCQWG DGKSCQVGPRLSLNGVVRFKRI SVGTSYCPKLNIA\SKIA\NELKP VKKSQIQVQGGRIHI
9756	40124	A	9816	2	451	ANAHGFIMELQDGYSTETGEK GAQLSGGQKQRVAMARALVR NPPVLILDEATSALDAESEYLIQ QAIHGNLQKHTVLIHARLSTV EHAHLIVLDKGRVVQQGTHQ QLACPRAGFYGKLVRQRMGLGL QPAADFTAGHNEPVANGSHKA
9757	40125	A	9817	1	498	MVKY/YLGQGVLRSSW/DQVV PA/FWQRYRNPVQRYLTEDIVH RENQMTTFTWNINHARPMVV EERCYVCVNSDNGWTEIRREA WVSSSLCGVSRAVWEFGLAQF KSNVTKLKGFEYILAKLQGEA ASKTLIKTAREAKEKAKETALA ATEKAKDLASKAATKKQQQ
9758	40126	A	9818	3	231	
9759	40127	B	9820	94	375	
9760	40128	A	9821	45	439	

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9761	40129	A	9822	304	1557	DRQNVMEQFNPLRLNLNLGK NYEKAVNAMILAGKAYYDGV AKIGEIATGSPVSTVELGHVLEI SSTHKLQRESLMENFKKFKH EIIHELEKKIELDVKYMNATLK RYQTEHKNKLESEKSAELK KIRRKSGSRNALKYEHKEIEY VETVTSRQSEIQQSIADGCKEA LLERERGASCFPLNKHCGFA/ NTHIHYHLQSAELLNSKLP WQETCVDIAIKVPKIMNMIEI KTPASTPVSGTPQASPMIERSNV VRKDYDTLSKCSPKMPPAPSGR AYTSLIDMFNNPATAAPNSQR VNNSTGTSEDPSLQSVSVATG LNMMKKQKVKTIFFHTAGSNK TLLSFAQGDVITLLIPEEKDGL YGEHDVSKARGWFPSSYTKLL EENETEAVTVPTSPTPVRSFSG
9762	40130	B	9823	1	1128	
9763	40131	A	9824	1	434	
9764	40132	A	9825	92	319	SIPYPPIPPVDRKEID*LEGMQT SGLFQQTSG*EEGVGSIMASGR PPHPEPLKADFICKREVRLAFSI ACIWMR
9765	40133	A	9826	1	851	
9766	40134	A	9827	227	305	LVFISIFNLVG*NISDCIILICQLK
9767	40135	A	9828	66	808	YCWQSQGAKPRDLLGPDLIPLN HSPRVSHLLCHRRIRKAGGVFV ADEIQVGFGRVGKHEFAQLQ GKDFVPDIVTMGKSIGNHPVA CVAATQPVARAFEAATGVEYFN TFGGSPVSCAVGLAVLVLEK EQLQDHATSVGSFLMQLLGQQ KIKHPVGDVRGVGLFIGVDLIK DEATRTPVELKRHHVYLVSRKE NYVLLSTDGPGRNILKFKPPMC FSLDNARQVAKLDAILTDM EKVRSCEMR
9768	40136	A	9829	3	597	

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9769	40137	A	9830	1	3281	MGFHHVQGAGLKLLTSGTPQL LALVQHWVPGARLVEELPHEL VLVLPTYGAHDGSFATLFRELD TRLAELRLTGYGSDTSEIEIFL KVVEECAADTDMEDG/TLRAA PMHRHCWPRRNPTAQDAATGD SAGDGEPAAGSAPETDQSGPD AVGRVQGWALTRQQLQALL KRFLARRSRRLFAQIVLPALF VGLALVFLVPPFGHYPALRLS PTMYGAQVSFFSEDAPGDGR ARLLEALLQEAGLEPP
9770	40138	A	9831	1	684	RTRGPPQSRSGRRRIPLYLP TSCIKELVAGGVAVESWPGRD AAQLLLCSCLSPPPVMTETRE PAETGGYASLEEDDEDLSPGE HSSDSEYTLSEPDSEEEEEEEEE EEETDDPEYDPGYKVK*RLGG GRGGPSRRAPRAAQPPAQPCQ LCGRSPLGEAPPGTPTGTSCC MPGVRCRQSPHTGSLAEGVGW EEGAEIGVVTVMGDBGVLPV CvvLEVDV
9771	40139	A	9832	1	670	MESDIGRKGKDPGEAPHESSD SEYTLSEPDSEEEEEEEEEEEEE TDDPEYDPGYKVKQLRGGRG GPSRRAPRAAQPPAQPCQLCGR SPLGEAPPGTTPCRLCCPATAPQ EAPAPEGRALGEEEEEPFRAGE GRPAGREKEEEEEEGTYHCTE CEDSFNGLGELATGTSCCMPGV RCRQSPHTGSLAEGVGWEEGA EEIGVVTVMGDBGVLPVCVVL
9772	40140	A	9833	3	512	
9773	40141	A	9834	3	815	MLYSRGPQPMGHGVLVCGLL GTGCTAGAQLREAYTSISSQID QAEERISEIEDKLNEIKREDKITE KRMKRNEQSLQEIWYVVKRPN LRLIGVPKSDVENGTKLENTLQ DIUQENFNLARQANVQIEIQR TPQRYSSRRATPRHIIVRFTKVE MREK/MLRAAREKGRVTHKGK PVRLTADLSAETVQARREWGP FNILKGKNFQPRISYPAKLSFISE GEIKYFTDKQMLKDFVTI/RPA LKELLKEALNMERNWYQPLQ KHAHL

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9774	40142	A	9835	1	561	MVNGRIPQAPSQFSHLARLHPA PSPNSDSPFLAELLMPVIGL TPSYSPRFSSESTFLQEAFFDLC QAEDPVYANGGLNYSYRGYGA LSSNLQPPASLQTGNHNSGPTD LSMKGGAAFTTSTTPTPTPSSTST SRPVPTAQLSPTEISAVRQLIAG YRESAAFLRLSADELENLILQQ NRPRRHL
9775	40143	A	9836	2	226	KGVQFQFSSYG*PVFPPTFIK*G VLSPLFVFLRFLKDQMVVDV*H YF*GLCSVPLVYISVLVLVPCCF FFTVAL
9776	40144	A	9837	2	350	YKVSCKPAQLCSQQVKYLWLK LSKGTRALSEERIQLAYPHPK TLKQLRGILGITGFCRIWIPR*S SPTGQE/FSLYVTEETGIALGILT QVQGTSLQPMEYLNKEIDELDQ GRTH
9777	40145	C	9838	213	365	
9778	40146	A	9839	1	1923	

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9779	40147	A	9840	1	2091	MVLVVVAVVVVVLVVAIVVV VVVVVAAVVVGAVVVVVVVV MVVVVVVVVEEDNQHKTGA INNNNTAKNPQQSPFHSPTST GAEATQMRRNQKTNPHNMTK QVSLTPPKITLAHQQWIQTKKK YLIYLLKKHSGVKNIPRNPTYEG CEGPFQGELOTTAQNKGGHK QTEDHSMMLDRKNQYCENGH TAQAVPNPYTLTSLQIPEDAWEF TVLDPKHAVFCIPVHPDSQFLF AFEDPSNPMSQLIWTLPQGFR NSPHLFGQALAQDLSQFSYLDL LVLRYMDDLALATHSETLCHQ ATQALLNFLATCGYKVSCKPA QLCSQQVKYLGKLSKGTRTSL EERIQPILGYPHPKTLKQLTAFL GITGFCQIWIPRYSKIARPLNTRI KETQKANTHLVRWTPAEVAF QALKKALTHAPVLSLPVGGNFS LYVTEKITGIALGVLT/PGTSAQ LAELIALTRAPELGEGRVNIY ANSIGREREFLTSKGTLVKHQE AIKRLLLAVQKPKEVAVLHCW GHQKGKEREIEENRQADIEARR AARQDPPEMLTEGPLAFELA MATARAELSLAIHCCLP PPPQ TRCWLP SLRIRQGVCCIPDPAR AITLTAWPKIPFLGIRKAKNPQV REHEACHHLGSLPPFWKWPT TILGALGARTPGNTGSTYTFIGY TYTSPVIFILSWQYVYFHLGY
9780	40148	A	9841	1	1284	

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9781	40149	A	9842	1	1522	MVAPGVS TRLGVS VFPFLVLVY DLQYEGAECGVNADVEKHLEL GKKLLAAGQLADALSQFHAAV DGDPDNYIAYYRRATVFLAMG KSKAALPDLTKVIQLKMDFTA ARLQRGHL LKQGKLDEAEDD FKKVLKSNPSENEEKEAQSLI KSDQMRLRSQALNAGSGDY TAAIAFLDKILEVCVWDAELRE LRAECFIKEGEPKAI SDI.KAAS KLKNDNTEAFYKISTLYYQLGD HDCSFSEFRDVLNLDQDHKRIC FAHYKQVKLNKLIESAEELIR DGRYTDATSKYESVMKTEPSIA EYTVRSKERICHCFISKDEKPV EARNVCSEVLQMEPDNVNALK DRAEAYLIEEMYDEAIQDYETA QEHNENDQI REGLEKAQRLLA KQSQRDYAKILGVKRNACK QEIIKAYRKLALQWHPDNFQNE EEKKAEKKFIDIAAAKEVLS PEMRKKFDDGEDPLDAESQQG GGGNPFHRSWNSWQGFNFSS GGPFRFKFHN
9782	40150	A	9843	5	519	LTCQEEHKKHPDSSVNFVEFS KKCLERWKTTSAKEK/SKFEEK AKSDKARC DREIKNYIPPKCKK GRPPSAFFLCSEHRPKIKSGHP GLFVVETAKKLGEMWSGQSAK DKQPYEQKAVKLQERYEKGIA AYRAKKGSEAGKKGSKKNKPE DEEEEEKEDEEEGEDEE
9783	40151	A	9844	1	3140	YSIATVLA AEKLDPRRDEAKR LRPQRNFNITFTGTVFRPLTLE STFFNSALLFTTIKQDLPLPKTI ITNAFHRFRNHHQTGFKLSAAN QRGPLAATLSGPGGEGQSAVA RLTGEKKNHPGAQYANRLSPR VGRFINAAGTTGFPPTGKRARSD SSLAKENNQKAYKETYGVSHT RHDMLQIPKQQQNEKYQVPQF DQSTIKNIESAKGLDVWDSWPL QNADGTVAEYNGYHVVFALA GSPKDADDTSIYMFY

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9784	40152	A	9845	2	604	FLELPAAAAVLSASPGALER EARSRSRSPQTADTSPRPAPAC APSRARAMPSPDRPFKQRRSFAD ARCKEVQQIRIDQHPSKIPVIER YKGEKQLPVLDTKFLVPDHV NMSELVKIIRRLQLNPTQAFLL LVNQHSMVSVSTPIADIYEQEK DEDFGLYMVYASQETFGF*ASS PCLSAHLPLTHPRLCPPGPAHP
9785	40153	A	9846	3	303	RDQHPSKIPVIERYKGEKQLPV LDKTKFLVPDHVNMSELVKIIR RRLQLNPTQAFLLVNQHSMSV VSTPIADIYEQEKDEDFGLAYM VYGLPGKPFPGF
9786	40154	A	9847	254	2110	
9787	40155	A	9848	234	1904	
9788	40156	A	9849	5	189	
9789	40157	A	9850	1	1546	MASASSQPSLAVGFSSFDPGAP SCTASSASGILSPTASEVPYASG MPIKKTGHRGVDSSGETTYKKT TSTALKGAIQLGITYTVGSLSTK PERDVLMDQFYVVEIFFPSEGS NLTPAHHYNAFRFKTYAPVAF RYFRELFGIPDDYLCCLCEPLI ELCSSGASGSLFYVSSDELIK TLQHKEAEFLQKLLPGYYLNLS QNPRTLCLKFFGLYCVQTGGKN IRIVVMNNLLPRSVKMHKIDYD KGSTYKRRASQKEREKPLPTFK DLDFLQDIPDGLFLDADTYNAL CKTLQRDCLVLQSFKIMDYSL WLSIHNIIDHAQREPLSSDTLQV SIDTQRLAPQKALYSTAMEFIQ GEARLGDTEADHMGGIPAQ NSKGERLLLYIGIIDLQSYTFLK KLEHSWKA VVHDGDAVSVHR PGFYAERFQHFMCNAVFKKIPL KPSPSKKFRSGLSFLHTGSSGN SCITYQPLVSEEHKSQVIKVVQE PGVHLGRSDVLPQTSEIPPLEEIT

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9790	40158	A	9851	233	2051	AGPGAGSTCLREARRGRGGGP QNAGSVKRRWEDSIPRRGR7GL KESQAAEGEGAAMASASSGP SSSVGFSSFDPAVPSTLSSASGI KRPMASEVPYASGMPIKKIGHR SVDSSETTYKKTTSSALKGAI QLGITHTVGSLSTKPERDVLMO DFYVVESIFFPSEGSNLTPAHHY NDRFRKYAPVAFRYFRELFGI RPDDYLYSLCSEPLIELCSSGAS GSLFYVSSDDEFIITVQHKKEE FLQKLLPGYYMNLNQNPRTLLP KFYGLYCVQAGGKNIRIVVMN NLLPRSVKMHKIDLGKSTYK RRASQKEREKPLPTFKDLDLQ DIPDGLFLDADMYNALCKTLQ RDCLVLQSFKIMDYSLMSIHNI DHAOREPLSSETQYSVDTRRA PQKALYSTAMESIQGEARRGG TMTDDHMGGIPARNKGERL LLYIGIIDILQSYRFVKKLEHSW KALVHDGDTVSVHRPGFYAER QRFMCNTVFKKIPLKPSPKKF RSGSSFSRRAGSSGNSCITYQPS VSGEHKAQVTTKAEVEPGVHL GRPDVLPQTTPLEEISEGSPIDP SFSPLVGETLQMLTTSTLEKLE
9791	40159	A	9852	30	298	EPFIFLFIYLFYLFETESRPVIO AGVQWCNLSLQPLPTGFKQFS VCLSPLTSDYRHPPPCPANFCS FSRDGVSPCWPGWSQTPDLR
9792	40160	A	9853	3	938	
9793	40161	A	9854	208	870	LGMAGRLFTVNLQSPNPLSTLL AEVCVEQCTLMSKMKPLWIM YSNEEAGSGRVSVSLKRDDD LWQDMLTMQTIRLMDVPDTIA NIQLNRRNMDGGNEFTLSA GYCVATYVLGIGDRHSDNIMIR ASGQLFHIDFCHFRQRVPFILTY DFVHVIEQGKTNN/SEKFERFRG YCERAYTILRRHGLLFLHLFAL MQAAGLPFLSCSKDIRY/LKDSL VHPL

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9794	40162	A	9855	1	790	VEELSKKLADSDQASKVQQQR LKVGQLGEWWPI.DKGGKLF KLWGRGGLVYKWFLLIYKISY ATGIVGYMAVMFTLFGLLNF KIKPEDAMDFGISLLFYGLYYG VLERDFAEMCADYMASTIGFY SESGMPTKHLSDSVCVCGQOI FVDVSEE/EDH*EHRC/CFHEF CIRGWCIVGKKQTCPCYCKEKV DLKRMFSNPYPPLGSLGVGCG KKVLA SVTCI WVLLGPSLLPPT RTCQT MNKKIMKVMVMRIKR MMTDTMAS
9795	40163	A	9856	1	1005	FRGRAVKMAAVVEVEVVGGA AGERELDEVMSDLSPPEQWR VEHARMHAKHRGHEAMHAEM VLILIALTVVAQLLLVQWKQRH PRSYNMVTLFQMWWVPLVFTV KLHWWRFLLVIWILFSAVTAFTV FRATRKPLVQTTPRLVYKWFLL IYKISYATGIVGYMAVMFTLFG LNLFLKIKPEDAMDFGISLLFYG LYYGVLERDFAEMCADYMAST IGFYSESGMPTKHLSDSVCVC GQQIFVDVSEEGDHETTYRLSC NHVSHEFCIRGWCIVGKKQTCPC YCKEKVDLKRMFSPNWPWRPHV MYGQLLDWLRYLVAVQPVIIIG VVQGINIYLGLE
9796	40164	A	9857	28	267	LNIGKGDSSKKPRGKMSSYAFFV QTCREEHKKQHPDASVNFSEFS YKKDIAAY*AKGKPDAAKKGFI KAEKSKKKKEEEEED
9797	40165	A	9858	1	194	MGKGDPPKLRGKMSSYAFFVQ TCQEEHKKQPDASVNFSEF/S KKCSERWKTMSAEKSEDMA KL
9798	40166	A	9859	241	958	HQIFILFFRKITKHGQRRSLRSPR GKMSSYAFFVQTCREEHKKRH PDASVNFSEFSKKC/SRQGWKT MS/SKEKGKF*RYGQKRDKAR YEREMKTYYP/SGGDKRSF KDPNAPQGGPPGFSFLF/CSEY RPKIKREDHPGLSIGDVAKKLG EMWELTLQ/SDKQPYEKKAA KLKEKYEKDIAAYRAKGPDA AKKGVVKAESKKKKKEEEEDE EDEDEEEEEDEDEDEDEEDD

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9799	40167	A	9860	2536	2909	KSGVPGSRFSSSDKSDTGV TGL FSTYFLKSDFLQLIDISASTAS KSLFSA VLFQEYILSFLSEIISIL SSAVCWREAPKLSMVGCLAAG GKLTGC*AAGCLATDGR TETL DAAPAAAALSAV
9800	40168	A	9861	5	1752	KCTICLRNS/AVCCGCGQLSG YLNREGADGAERGGGSGV E C LRAPVCGQAASSI.AASQLAAG GQAANHAQLRCLSPADCALML FIQVEVL TNSIAMVSVHLEKQP LKLVLGELGFRSPAGEEQATPV VGEGGLGCIEDSAAVAEGGIAI GGIVGINTALQEV LKPHTIKMQ RNNAQLSRRKEPK E GLCGERG QDRMSRAKGS SSKGKELPPGCR RVTM KPLL VRETQEGQA AERG AEEQLQTLGPFAVYRDSPSKNF YKRDKMLKGLEEAKVNFVWR TNEG FLEEDAGQEFGIQKAVTP ALCPSRKA EVPLSCLTLK LSED GKAKKAPYNTG PLGLLHLSMC SHSRKGFEQLWQLNSGKLLQG PRDSVEGSARRAETA VHCPAVL HFAPALLLAALRCQRDLESAAA PSHTRSCQHPRLLSGAVQTAGF SNPPKVVIQIKWNFLVM L LNF GSTKLIARLKQQMNYKEMASQ RLTQSM LPHRSRLIGAGPCNRC VHPEPVIVTLFGQKV FARIKKN QTCLLCSQIWCAHYQQGWICA WLAGFGKIYIFSTIGVIDTLSSG HIHLQPNC TARDASWESPA
9801	40169	A	9862	1	668	MWRLVIQDAKDENGVLVGNR VLAHSSLAVLSCLALNNRRISG WTP/CGPSGSPPGFMGRRGTST/ RLPTG**CPEGQPPRCPCG*ASG CASSPAECRMPATHLPNGSGRV FPFPGPVNYSPLRLQAPEQVTG S/SPWPFS/RPVLGLPLEGS/PPP F/RLPPRPRPAGVAAGSSWGHS AASVRRSPGRRPEGESIHP RPPA SRLPWL RATREEEAGAPKLGED SYNPF

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9802	40170	A	9863	2	624	FMGRRGTSTPFLADNAPRGSP PGAHVVGWDPDLRRAPVTGF SCSGSCSQRGAAADWESFPRSP CRASGCASSPAECRMPATHLPG NSGRVFPFPPGVNYSPLRLQAP EQVTGS/SPWPFs/RPVLGPLPLE GS/PPPF/RLPPRPPAGVAAGSS WGHSAAVRRSPGRRPEGESIH PRPPASRLPWLRAATREEEAGAP KLGEDSYPNF
9803	40171	A	9864	51	225	
9804	40172	A	9865	1	276	AFAAIPTNTLLLEQKALDEPAE TESVSKDNTL*PPVETPTTLPR AGRETKYANLSSPTSTVSESQ/P D*AWSNSPSTCKIQNITEKRGG SL
9805	40173	A	9866	3	441	QTNFKGCSKVTSKLNMSLLW TPTGR*GCDRKVEQGPGLDGT AAVRPKSLAISSLSVS/ACSASK TQGDTLKTSSHPPEMLHGMAPQ QKHGQQYKTKSSYKAFASIPYK HIAFGTEDS/STLPPRAAGRETK YANLSSPTSTVSESQAD
9806	40174	A	9867	123	417	SLDLDLFTVSGLLSLDSSGILTR NLEYSAN*VWVGSLTVGTNV KIRGLASEPPAETVSFSSKFLFN KLLFSRFSSSILKENEKERKNER HRGNSNV
9807	40175	A	9868	153	1624	TTRRKSMNPSTLSGKYLEDNSDL FSEQALDEPAKTESVSKDNTLE PPVELYFPAQLRQTEELCATID KVLQDSLMAPSLSPTKQASSS LAYMNVERTPSPTLKSNTMLSL LQTSTSSSVGLPPVPPSSLSLKL SKQDGLRGPENPRNIHTYPST LASSALSSLPINQRATFSSEK CFHPSPALSSLINRSKRASSQLS GQELNPALPSLPVSSADFAFLP NLRSSS/APSCQSAHPGAPAQSL SSAPTCSGSLTPSRLGKSESTTP NHRSPVSTPSSLISLRTTEELISP CALMSMTGPKNKKSKPTTLPR AAGRETKYSKNDYLTNLNAGS QQERDQAKLTCPSEVSGTILQE REFEANKLQGMQQSDLFKA EYVLIVDSEGEDEAASRKVEQGP GGIGTAAVRPKSLAISSLSVDV VRPKTQGTDLKTSSHPEMLHG MAPQKQKHGQASAYKGEESNEE DWTILKSSRMTNPRKLSDNKI
9808	40176	A	9869	1	762	

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9809	40177	A	9870	1	537	
9810	40178	A	9871	490	681	MGLVLLHVGKLGSSWLRNGSQ ETAGQIISPLSSWHDGTGAGAAL DFSPLGSLCPVR*GSRRAAPH
9811	40179	C	9872	258	527	
9812	40180	A	9873	1	2865	MLPAFEHQTPSSSAFGLLNQQ WVVRGSRAFGHRLLKAALSGSL LLKFSDDSWLPCSSACRGPIVG LHLVIVYVKSHQNA YRHKNIQI KQTLSCNTTKVRSFIEVSETR NPPAGTNSGHILGTCPGYRYAK GKETGKEIKGPQNPPGYRLCPL QAVGGGEFGPTQVHVPSLSDDL KQIRVDLKGFSDDPDRQYPLRP EAHEGLQDILRYLKVQGLVRK CSSPCNTRILGVQKPKGWRLV QDLRFINEAVIPL
9813	40181	A	9874	3	177	
9814	40182	A	9875	255	1299	AAVFPLWCWRTRGKCHSLEWR PCTVCSWDPSPPKVSAGQALCG SETLPLTQTPDIQVPA TLES GHP ANLLVSAAWKSRKSLFSSWTW GTVISLGRPTPHFSEITIPLWS HGSSITFQVTFPRFHVTTMTIQ LNVSSPVALENATSLSVLKNQS LRFVYVTDSDNPPARLSWTWEG QALNLSQSSSAVLELPPVESC DGGEFVCQAQHPLGSQHVVISIL SVQSDSVISIEEGVLQTLGFTLIR GILMGTSCTFCGFTWICSTSPVI PKPGTQSCSFTRDSATLPDAG SPGPKRVWMCSESHQPLCAVP DEDEQELHYAVLHFHKVQPQE PKVTDTEYSEIKIHK
9815	40183	A	9876	27	385	ASTTTGSGTSTAARCTAWSPG PLVTAVEKEFAEAAALGQRIST LQKGSFPLQVRMLNDQLMLL ERTFLNPRAFPERYYSYHVLWA /PSHGLRSHIPGLSNACSRARDT ASGSEA WAEG
9816	40184	A	9877	160	480	
9817	40185	A	9878	19	433	GLDHGWAGDRWRTRPVVGAG EGRAPRLNSPGQIRSPGPGDLS IYDNWIRYFNRSPVYGLVP.GF SSHQAVARTAGSVILRLSDSFFL PLKVSDDYSETLRSFLQAAQDDL GALLEQHSLISGLPLVTAVEKFE AKAAAL

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9818	40186	A	9879	1	996	MALSKERSTVTRTQWARKTML QGETIQISESVSTYLRPYSVSGT VLGTNMSKTSARIPTYHTAFD TFDYVDKFLDPGFSSHQAVART AGSVILRLSDSFFLPLKVSDYSE TLRSFLQAAQQDLGALLEQHSI SLGPLVTAVEKFEEAAALGQR ISTLQKGSPPDHVLWA/PSHGLRS HIPGILSNACSRARDTASGSEA WAEVQRQLSIVVTALEGSVEAL HEVLQLPAALRACPPLRKALAV DAAFREGNAARLFRLLQTLPLYL PSCAVQCHVGARREALARFA RAFSTPGQTLPFGFMVNLLA WMDSGKHGTCARPTGCPWTER RELCS
9819	40187	A	9880	66	744	RAHEDRERSGVQIRTQSWNGG KREKDFLHQSGVLETLMLKGC WRKSKTSARIPTYHTAFDFTFD YVDKFLDPGFSSHQAVARTAG SVILRLSDSFFLPLKVSDYSETL RSFLQAAQQDLGALLEQHSISL GMHSPDPEVRMLNDQLMLLER TFLNPRAFPEERYSHVLWA/PS HGLRSHIPGILSNACSRARDTAS GSEAWAEVQRQLSIVVTALEG AAATLRPVADL

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9820	40188	A	9881	2	2241	PRVRRMQWTKVLGLGLGAAALLGLGIILGHFAIPKANSIAPQDLDEILEITVMGQLDAHRIRENIRELSREPHLASSPRDEDLVQLLLQRWKDPESGLDSAEASTYEVLLSFPSQEQPNVVIVIGPTGGIIHSCHRTEENVTEGQGGPDVVQPYAAVAPSGTPQGLLVYANRGAEEDFKELQTQGIKLEGTIALTRYGGVGRGAKAVNAAKHGVAGVLVYTDPADINDGLSSPDTEFPNSWYLPSPGVERGSYYEYFGDPLTPYLPAPSSFRVDLANVSGFPPIPTQPIGFQDARDLLCNLNGTLAPATWQGALGCHYRLGPGFRPDGDFPADSQNVSVYNRLELRNSSNVLGIRGAVEPDRYVLYGNHRDSWVHGAVDPSSGTAVLLELSRVLTLLKKGTWRPRRSIVFASWGAEFGLIGSTEFTEEFFNKLQERTVAYINVDISVFANATLRVQGTTPVQSVFSATKEIRSPGPGDLSIYDNWIRYFNRRSPVYGLVPSLGLSAGSDYAPFVHFLGISSMDIAYTYDRSKTSARIYPTYHTAFDTFDYVDKFLDPGFSSHQAVARTAGSVILRLSDSFFLPLKVSDYSETLRSFLQAAQQDLGALLEQHSISLGPLVTAVEKFEAEAALQQRISTLQKGSPPDLQVRMLNDQLMLLERTFLNRPAPFEERYSHVLWAPSHGLRSHIPGLS
9821	40189	A	9882	1	1962	
9822	40190	A	9883	1	166	MEYYAALKKDEMFMSVGTWMKLETIILSKV/CQGGQVKVHHMFSLTGALLVRGPWA
9823	40191	A	9884	1	378	
9824	40192	A	9885	1	681	
9825	40193	A	9886	1	3174	MEYYAAIKNDEFMSFVGTWMKLETIILSKLLQGQKTKHRMFSLIGSHIVKVPSSLQAHLQLSGKEVDVNSEVHVQEMAEARKDDVVTVTDAAEKALDKIHLFMVKTLSKIGIQGTYLNVKAIYDKPTANII LNGEKLFAPLRNRETQGCPLSPLLNTVLKVLARAVRQEKEIKGIQIGKEEVILSLFADDMIVHLENPVISAQNLKLIDNFSKVSQYKINVQKSQAFLYTNNRQTESQIMSELPFTIASER
9826	40194	B	9887	1	352	

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9827	40195	A	9888	3	430	FFFLPVAGLRRPRRLGPVPPR PRVPPQDRAATMKKFFQEFKA DIKFKSAGPGQKLKESVGEKAH KEKPNQAPRPPRQGPTNEGTD GSRCCQP/WLEQKQSRAWGPH IAGHHKPKGEKGTSSRSHRQRE PRGPRDQIRGI
9828	40196	A	9889	1	1062	MKKFFQEFKADIKFSAGPGQK LKESVGVWGRPNGLMSVKGN CECGNLWLLYPEVAALAAEAE GPEVGSVEDQRRQQGYFVRLG SLSARIRHLAYEHSVGLKRLQSK HRAQDTLAQLQETLELVDHMP CGVTPPTAPARPGKVHIELWGEW RQRPP/REPPPEIQAELETLVLAR SLTHELQGTVEALEFSVWGLPA GAQEKVAEVRRSVDALQTAF DARCFRDVPAAALAEGRGRVA HAHACVDELLELVVQAVPLPW LVGPFAPILVERPEPLDLADLV DEVIGGPDPRWAHLDPAAQQR AWAEHRDGSNGDGDGRMGV AGDICEQEPETPSCPVKHNPDA RAGLLTHGPFVEAG
9829	40197	A	9890	11	285	
9830	40198	A	9891	2	138	FFFLGFHVFSIPLIPRDNFS*GV FSSLDLITAVFVTLAELRSVT

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9831	40199	A	9892	121	2320	EMAFQKAVKGTILVGGGALAT VLGLSQFAHYRRKQMNLA YVK AADCSIEPVNREPPSRE AQL LTL QNTSEFDILVIGGGATGSGCAL DAVTRGLKTALVERDDFSSGTS SRSTKLIHG GVR YLQKAIMKLD IEQYRMVKEALHERANLLEIAP HLSA PLPIMLPVYKWWQLPYY WVGKILYDLVARKANCLKSSY VLSKSRAL EHF PMLQKDKLVG AIVYYD GQHND A/RMNLAIALT AAIRYGAATANYMEVVS/LKK TDPQ/TGK/VHVS GARCKGCPST GQEFDRVAKCVINATGPFTDSV RKMDDDKAAANCOPSA GVHIV MPGYSPESMGLLDPATSDGR VIFFLPWQKMTIAGTTDTPTDV THHPIPSEEDINFILNEV/RNYLS CDVEVRRGDVLA AWSGIRPLV TDPKSADTQSSIRNHVV DISESG LITIAGGKWT TYRSM AEDTINA AVKTHNLKAGPSRTVGLFLQG GKDWSPTLYIRLVQDYGLESEV AQHLAATYGDKA FEVAKMAS VTGKRWPVGVHLVSEFPYIEA EVKYGIKEYACTA VDMISRRT LAFNLVQA AEEALPRIVELMGR ELNWDDYKKQEQL ETARK/FL YYEMGYKSRSEQLTDRSEISLL PSDIDRYKKRFHKFDADQKGFI TIVDVQRVLESIN VQMDENTLH EILNEVDLNKNGQVELNEFLQL

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9832	40200	A	9893	1	2020	MLKPLMGGGAHRRAAAGARK WDGTAAHASTSGLEVLWVTTSR SKTVESVGLAKPGQHNDARMN LAIALTAARYGAATANYMEVV SLLKKTDPPQTKGVRVSGARCK DVLTTGQEFVRAKCVINATGPF TDSVRKMDDKDAAA/CQA/SA GVHIVMPGYSPESMGLLDPAT SDGRVIFFLPWQKMTIAGTTDT PTDVTHHIPSEEDINFILNEVR NYLSCDVEVRRGDVLAAWSGI RPLVTDPKSADTQSISSRNHVVDI SESGLTIAGGKWTTYRSMAD TINAAVKTHNLKAGPSRTVGLF LQGGKDWSPPLYRLVQDYG ESEVAQHLLAATYGDKAFAVEAK MASVTGKRV/WPIVGVRVLSDF PYIEAEVKYGIKEYACTAVDMT SRRTRLAFLNLQAEEALPRLL ELMGRELNWDDYKKQELET ARKFLYYEMGYKSRSEQLTDR SEISLLPSDIDRYKRRCHKFDAD QRGFMTVVVEVQVRVLESINVQM DENTLHEILNEVDLNKNGQVEL NEFLQLMSAIQKGRVSGRLAI LMKTAENLDRRVPIPVDRSCG GLYFCVRNWWVLGLTDFKNE AADPSGVKLQTTFTVSVTLKV ARLELFVSPGGLVVLGSGVKL QIFAPNMAMHNKAAPPQIPDTR RELAEVLKRRQELAAATLAKFG
9833	40201	A	9894	2	593	ISSAVEFETSQLSGLWTEQSAA RSRGENIVCGPQGPGR/GPWVP AEPTGSPVVSSEPLDLLPTDLDR QEMPPPRVFKSFLSLFQGLSVL LSLAGDVLVSMYREVCSIRFLF TVVSLNLNLSAFWLGLLYLVS PLENEPKEMTLSEYHERVRSQ GQQLQQLQAELDKLHKEVSTV RAANSERGAKLVFQRLNEGFV

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9834	40202	A	9895	1	1105	MRRSSRPGSASSSRKHTPNFFSE NSSMSITSEDSKGLRSAEPGPGE PEGRRRARGPSCGLLFQGLSVLL SLAGDVLVSMYREVCSIRFLT AVSLLSLFLSAFWLGLLYLVSP LENPKEMLTLSYHERVRSQG QQLQQLQAELDKLHKEVSTVR AANSERVAKLVFQRLNEDFVR KPDYALSSVGASIDLQKTSHDY ADRNTAYFWNRFSFWNYARPP TVILEPHVFPNCWAFEGVQGG VVIQLPG/HECTLSIDLQHPPPS VEHTGGANSAPRDFAVFLLSF FTHQGLQVYDETEVSLGKFTFD VEKSEIQTFLQNDPPAAPKV KIQILSNWGHPRFTCLYRVRAH GVRTSEGAEGSAQGP
9835	40203	A	9896	10	395	VEPGKRLIDRIVETICSCFOGPO TDEGVQLQIIKALLTAVTSPHIEI HEGTILQTVRTCYNILASKNLI NQTTAKATLTQML/NHARSDSG KVSTENGDAPRERGSSLSGTN DGAQEVVKDILEDVVT

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9836	40204	A	9897	1	1698	MLGTSVEDIAQFLHQEERLDST QVGDFLGDSARFNKEVMYAYV DQLDFCEKEFVSALRTFLEGFR LPGEAQKIDRLMEKFAARYIEC NQQTFLFASADTAYVLAYSIM LTTDLHSP/PDLEMHQAPAGARS ADRNRCEDALPVWIA*KRRE PEGPHIGRRRVHGPWPR*FGEW RSG*KTDGQLPRIGW*DQLAEC GCSCGQDFYVWYQTGWKNS* LCPLAVCCVHG*TGFPSSHV QLAEDCGDILQHESDPTIVVS NMACDWRSLQ*DKL*MLGTSV EDIAQFLHQEERLDSTQVGDFL GDSARFNKEVMYAYVDQLDFC FKEFVSALRTFLEGFRLPGEAQ KIDRLMEKFAARYIECNQQTFL FASADTAYVLAYSIMLTTDLH SPQILKCISQLELAQLIGTVKT RYLSGSGREREGSLKGHTLAGE EFMGLGLGNLVSGGVDKRQM ASFQESVGETSSQSVVAVDRI FTGSTRLDGNAIVDFVRWLCA VSMDELASPHPRMFSLQKIVE ISYYNMNRIRLQWSRIWHVIGD HFNKTSCDRLRELHVSEVFTVI TETRETKGPRDTPIFIETLVKVK DAEDQLGARVGYIELDLNSGKI LESFRPEERFPMSTFKVLLCG AVLSRIDAGQEQLGRRHYSQN DLVEYSPVTEKHLTDGMTVRE LCSAAITMSDNTAANLLTTIG
9837	40205	A	9898	1	492	
9838	40206	A	9899	1	3555	
9839	40207	A	9900	1	4145	MFVLKVGCSLLLRDPRRSLLH YTCFTSVPLVQVGCNPNEVDV AIFAVIDSLRQLSMKFLKELGA NFRFQKDFLRPFEHIMKKNRSP TIRDMAIRCIAMVNSQAANIR SATIFQHHPAIDSFQDAVKCL SEFACNAAFPDTSMIAIRLIRF CGNYLISERPRVLLEYTSDDMN VAPGDRVWVRGWFPILFELSCL NRCKLDVTRTGLTVMFEIMKS YGHITFEKHWQDLFRIVFRIFD NMKLEPQLSEKS

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9840	40208	A	9901	1	5477	MQESQTKSMFVSRALEKILADK EVKRPQHSQLRACQVALAWK LLLIAPLAVGKATPVKMWSNK VEQLTVMNMHSAEQETDEIKA EIEKQRLGTAAPPKANFIEADK YFLPFELACQSKSPRVVSTSLDC LQKLIAYGHITGNAPDSGAPGK RLIDRIVETICSFCFGPQTDEGV QLQIIKALLTAVTSPHIEHGTI LQTVRTCYNIYLASKNLINQTT AKATLTQMLNVIFTRMENQVL QEARELEKPIQSK
9841	40209	A	9902	2	740	TGWEGRAAEAEVPQDDRRREPRH S/IEVEEEDQKLVSASLEPIGG/P PDCPQKQ/PQCPLSPSKKWGC DLCL*QHKLAQKWRREISTSVP SQPLGPGRTADTGPSLPT/TPA GQEAGRTPAPPAWSAFDL.DST VVKMEKGWICS*KYTRSQASC SELPRRLGRAPTTEELGMPTQE VAPLPARG*GPESLPL/ASRQEF LSGRTVRVKLGLPLPLETEGKIV LPGEGGSPHVCPSPWIIERRTA DQGVVAE
9842	40210	A	9903	1	1376	MPSSSVGPAPPSLRGSSEQLAW LRGIFSYRSSPPSPQOSSPNQTR SRQHYAPSVFEKYTASVTVGSK EVTNLNYDTAALAGPWPALHS WRPLRGAGCGALEAKPYTKQ WAALGPPMVPGLRLRYLLWSLQ TLATPGQRPREGPHAHTPRAEA TAGQEPARDPKGSARNPEPQRP RGKGVRAAPKQGVGRGMSIPAQ PHASTRAGSERSE/QRRLSSF TGSCDSDLKFNQLKFRKKKLLK FCKSHIHDWGLFAMEPSGDPLE SAWIHARNAPTTTPSQTPHPPPR EAGNPNNPPRAPEARGPGHDKA AQKACVHGGPNTQHPRPQPEP AVPPAALAPPPKHQLSSQASSPS RLGRAAERPHKTQQRQTPTHT GPRAAATAEHAPQALPPAPAP HYNRTRPAQLRNPPTPKKGSEE PAQPTKHTPATPAKRDPKGGG ARRRPARPLQPHSGGEDEKES

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9843	40211	A	9904	724	2076	KLCPCLYHFFHTNVQRHAPFVA NPFLLTHIQISTKHPAIVGTTELL LCVGGVQRVLQLAPQRLQLLA QVPALLRLGPGHTLRLQVLLG LGQGCLSLPQGFQQLGPGPTLV FCPLPELLEEDAVGEALATDAD ALQDPVAAKL VQHQPWLQLPG LGKQPPPLPVSQLLEVGRAVPLH HPQGALLLALLEGLQSLPRV HSPFLHDTFRHRPVPASQLN SFEQLCITTPQKLQQLFNHTMF VSPPAVNQANPAGLLALDEE CWFPKATDKSFVEKVAQEQQG HPKFQRPRLHRDQADFSLHY AGKVDYKANEWLMKNMDPLN DNVAALLHQSTDRLTAEIWKD VEGIVGLEQVSSLDGPPGGR RRGMFRTVGQLYKESLSRLMA TLSTNTNPSFVRCIVPNEKRAG KLEPRLVLDQLRCNGVLEGIRI CRQGFNRLQFEFRQ
9844	40212	A	9905	2	480	VGCMGCSKGPWRQAFQVDVH VSDALPQCRQLQTGMRGAFGK PQGTVARVHIGQVIMSIRTKLQ NKEHVIEALRRAKFKFPGRQKV CSAAAPFSHLCPRPDSVLSIAP *IHISKKWGFTKFNADEFEDMV AEKRLIPDGGGVKYIPSRGLD KWRALHS
9845	40213	A	9906	1	485	SDEYDQLCSEALVGAQICAKK YIVKCCGKNGFHIRVRLHPFHV ICINRMLACAGTDRLQTGMGG AIGKPAQGTVARILIGQVIMSIRT KLQNKHEHVIEALRRAKFKFPGR QKIHISKKWGFTKFNADEFEDM VAEKRLIPDGGGVKYIPSRGLD DKWRALHS
9846	40214	A	9907	198	452	DYYLEGLNHIVVHHDHFLNLQN HSSNLPVAEICYR*RYRKVVQ RIIAKDYTTLEFSNR*LFN

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9847	40215	A	9908	2	1968	SYLHCKWATMEELEKDPRIAQ KIKRFRNKQAQMKHIFTEPDED LFNPDYVEVDRILEVAAHTKDAE TGEEVTHYLVKWCSPYEEST WELEEDVDPKVKEFESLQVLP EIKHVERPASDSWQKLEKSREY KNSNQLREYQLEGMNWLLFN WYNRKNCILADEMGLGKTIQSI TFLSEIFLRGIHGPFLIAPLSTIT NWEREFRTWTEMNAIVYHGSQ ISRQMIQQYEMVYRDAQGNPL SGVFKFHVVITTFEMILADCP KKIHWSCVIIDEAHRKKNRNCK LLEGLKLMALCHKVLLTGTP NSVEELFSLNLFPSQFPSETA FLEEFGLKTEEQVKKLQSLKP MMLRRLKDDVEKNLAPKQETII EVELTNIQKKYYRAILEKNFSFL TKGANQHNMPLINTMMELRK CCNHPLYLINGAEEKILED HSPDAPDFQLQGMIAVAGKL VLIDKLLPKLIAGGHKVLIFSQM VRCLDILEDYLIQRRYTYERIDG RVRGNLRAAIDRFCKPDSDRF VFLLCTRAGGLINLTAADTCII FDSOWNPQNDLQVPEGRIQKV WEQMSWPRAQPDNAAAACL QDFGSQLGVQSEETGPFHNRQK QDSGNSHTAPRGRESFIKPPSSR DLLPLKIQKEGPATNYNS
9848	40216	C	9909	223	402	

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9849	40217	A	9910	1	1710	MFEKAARQEWIQVAKSVTRVA MSSYTFQKNPDLSVGEDVEKK LELSYAAVTMAWGQYGDYGY PYQQYHDYSDDGWVNLNRQG FSYQCPQGGVIVAVRSIFSKE ADSVSRASATGPDSGQFFLLER VGCTKTTAEAQPORDDPYLVLT RTVEGLSRTVEGVGRGLTQAA AGEGAGAVEAAW/NSLCGPFSS TPMASDEETEAIRGHETRPDDT AKNSGAIQHQSCSWPLY/RA PHSVKRYQTCSNNGLVAGFQS RYFESVLDREWQFYCCRYSKR CPYSCW/LSLAADQTLMTPGVG EAPRKCSSFRKGNRTIEPALTGP KSPTYSVGMPSLKLRPNDSHPS AVLLLPNFWLTTEYPGHY GEE MDMISYNYDYYIRGATTTFSAV ERKEERRERKIGDKKHTEPTV LVWAAIPHYLRLGNLRTIEIFYH SSGSWKVQDQVDPPEEPARQN HRDRVPCHTTPPLGGQEGDSQPV VMRAKDHYELEKQKALGQVE DEEDLCQQQLPEQTYGSEEP QEAKKNLGSPEPNSQAGA QKPI SMATNRAVFDVTCNFSPHWLQ CLQSRSLSPEDPGL
9850	40218	B	9911	101	1237	
9851	40219	A	9912	1	622	NLSDRHRGSHLESQHFORLKQE DLLSPRIQDQPGQHWETLSHINI VVIGHVDSGKSTTTGHLIYKCG GIDKRTIEKFEKEAAEMGKGSF KYAWVLDKKAER/ERGITIDIS LWKFETSKYYVTIIDAPGHRDFI KNMITGTSQADCAVLIVAAGV GEFEAGISKNGQTRHALPG/ YSQKRYEEIVKEVSTYIKKIGYT PDTVACVP
9852	40220	A	9913	1	762	VVQTQISKTADELISYWGTSFPP PFAASLTLYELCYCITIDISLWK FETSKYYATVIDAPGHRDFIKN MITGTSQADCAVLIFAAGVGEF EAVTFAPVNVTTTEVKSVMHH EVLSEALPGDNVDFDVKNVSV KEVHHGNVAGQISAGCAPVLID CHMAHIAACKFAKLKKKTGSTS GKKLEDGPTFLKSGDAAI VDM VPGKPMCVEFSVYVPLSRFAV CDMRQTVAVGVIEAMDKMAA\ GAGKVTMSAQKAHNAK

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9853	40221	A	9914	1	618	MVQARPGAHPITLLPGPTAAWV SGFSGGSDLTGAREAQERGR WSPTESSASVSPVAKVSKFTLS SELEGGDYPKERERTGGGPRGP PDWTPHGTGA\LQSPHPRTAPA PHPTPCGPRPDAGQSPGAPPA WSPRVHRPTPSLLPPRRWTA LWAAWQRPPLPASQPGRTGSPG NPGPGRTPSPQEVGSPGHHIS LRTGFPPTL
9854	40222	C	9915	3	406	
9855	40223	A	9916	1379	2096	NGGGCGAARGGAAPGEGTRRG ACWATRGPLGTGRSAAAPARR GERQQLAMDVFLMIRRHKTTF TDAKESSTVFR/ELKRIRRGQSS KRPPDEQRL\YK\DDQLLD\DG\ KTLGECGFVTSQNRHRPQAPAT VGSLPASSAASSTDDTFEALCI EPFSS\PEL\PDVDGRPGGFGEG SAQLNKAVQVETPQEGPIFPQL KGDGLSLPGCLFFPPLPGMGP TPCGLLLGLVLGSSCAVLSPRS
9856	40224	A	9917	1	695	MAHAGRTGYDNREIVMKYIHY KLSQRGYEWDAGDVGAAPPG AAPAPGIFSSQPGHTPHPAASRD PVARTSPLQTPAAPGAAAGPAL SPVPPVVHLALRQAGDDFSRRY RGDFAEMSSQLHLTPFTARGRF ATVVEELFRDGSVNREMSPL\V DNIALWMTEY\LNRLDHTWQD NGGWPWDFLIGATTPTVTIPYLP YHSTEECLINVKGTAEFKIPFA KPDEMIQAIIIDGC
9857	40225	A	9918	3	422	CSLKNWREVLALLTYSGTEKF PELC\DLMEKVMVNLNRSLEQLR GPH/GGS\AVLGQQSPFPFPRIV VGATLHSEKTSYRLGSQPSHQ VPTSPRPRVFTPQSSPAMPLAP SHPSPYQGPRTQNISDYRAGP QAIQPLPL
9858	40226	A	9919	1	849	

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9859	40227	A	9920	3	868	NSSPPFPFRIVVGATLHKSSETS SYRLGSPSHQVPTSPRPRVFT PQSSPAMPLAPSHSPYQGPRT QNISDYRAPGPQAIQPLPLSPGV RPGPQDSWKEAPAPRGNLQRN KLPETFMPPAPITGPS/IM/RPHP* ATRDSSLTAPLSPV*VMLPQEF QENSPAGDKDNVFPGLGKPPSP PCVQVMVDGPHSSR/PCAEGD WVQVPGVLTAEKGRLLISPILL *WEQCDCESLGTS*GSHEKDS LPLWPFSLLLYQQLQHLPEKMK ERKELPPEHQLKSSFEALLQRC
9860	40228	A	9921	1	307	MKLKELERPAVQAWSPASQYP LYLATGTSAAQQLDSSFSTNGTL EIFEVDFRDPSLDLKHGVLISA LSRFHKLWVGSPGSGLLSSGV IVGGDNGMLILYNVTHILSSG KEPVIAQKQKHTGAVRALDLN PFQPPEDIKALSNNRQAQHILSS AHPSGKAVVWDLRKNEPIKVS DHSNRMHCSGLAWHPDIATQL VLCSEDDRLPVIQLWDLRFASS PLKVLESHSGILSVSWQADA ELLLTSAKDSQILCRNLGSSEPC PRLVFISQVTTESEFLMRSALQ EALGSGNLLNYCQNKSSQALL QSEKMLWQFLKVTLEQDSRMK FLKLLGYSKDELQKKVATWLK SDVGLGESPPQKGNLNSDRQ QAFCSQASKHTTKEASASSAFF DELVPQNMTPEIPITKDIDGLL SQALLLGELGPAVELCKEERF ADAILAQAGGTDLKQTQERY LAKKKTISSLLACVVQKNWK DVVCTCSLKNWREALALLTY SGTEKFPCLCDMLGTRMEQES RALTSEARLCYVCSGVERLVE CWAKCHQALSPMALQDLMEK VMVLNRSLEQLRGPHGVSPGP ATTYRVQYANLLAAQGSLAT AMSFLPRDCA/PAARDIYAPSTN YCSSYEPHP*ATRDSSLTAPCLQ SASAPAT*EDGKEGAAPRASVL EEQL*GASPTLLPVCN*LKDKK

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9861	40229	A	9922	3	2751	SVSWSQADAELLTSAKDSQIL CRNLGSSEVVYKLPQTSSWCDF VQWCPDRPSVFSAAFNQWISL YSVMGRSWEVQHMROADKISS SFSKGGQPLPPLQVPEQVAQAPLI PPLKKPKWIRRPITGVSFAGGG KLVTFTGLPSTPAHLVPQPCRL VFISQVTTSEFLMRSaelQEAL GSGNLLNYCQNKSSQALLQSE KMLWQFLKVTLEQDSRMKFLK LLGYSKDELQKKVATWLKSDV GLGESPOPKGNDLNS
9862	40230	A	9923	363	543	
9863	40231	A	9924	2	737	EAETEYFVRICKHMTNHNIVFQ LFHLLTFQFDCNTLNDQLEK VTVQMPESSEYEVLSICIPAPSLP YNQPGICYTLVRLPDDPTAVA GSFSCMTMKFTVRDCDPNTGVPD EDGNDDEYVLEDELVTVSDHIQ KVLKPNFAAAWEEVGDTFEK EETFALSSSTKLEEA VNNITFL GMQPCERSDKVPENQD/SHSL YLAGIFRGGYDL/LVRARLALA DGVTMQVTVRCKHRTFVDIILA
9864	40232	A	9925	327	464	GSPTTRPAKPLTLSSGHLSRPR WAEGPQYHLP*ISAPRAKLG MM
9865	40233	A	9926	2	1179	WQPDIGPYGGLLNvvvdGLFI GWMYLPHPDHPVDDPMRFKPL FRHILMERKAATVECMYGHKG PHHGHIIQVKKDEFSTKCNQTD HHRMSGGRQEEFRTWLREEWG RTLEDIFHEHMQELILMKFIYTS QYDNCLTYRRIYLPSPRPDDLIK PGLFKGTGSGHGLEIVMLSFHG RRARGTKITGDPNIPAGQQTVEI DLRIIRIQLPDLENQRNFELSRI VLEVRERVRQEQEGGHEAGE GRGRQGPRESQPSAPQAEAP SKGPDGTPGEDGGEPGDAAVAA AEQPAQCGGQPFVLPVGVSSR NEDYPRTCRMCFYGTGLIAGH GFTSPERTPGVFILFDEDRFGFV WLELKSFSLYSRVQATFRNAD APSPQAFDEMLKNIQSLTS
9866	40234	A	9927	287	537	TGKFPSC/CLLSFYGTGLIAGHG FTSPERTPGVFILFDEDRFGFV LELKSFSLYSRVQATFRNADAP SPQAFDEMLKNIQSLTS
9867	40235	A	9928	1	3651	

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9868	40236	A	9929	1	3720	MEEMFGGGAADDYKAGPPE DEGDPKAGAGPPGPPAYDPY GPYCPGRASGAGPETPGLGLDP NKPPELPSTVNAEPLGLIQSGPH QAAPPPPPPPPPAPASEPKGG LTSPIFCSTKPKKLLKTSSFHLL RRRDPPFQTPKKLYAQEYEFEA DEDKADVADIRLNPRLPDV SSCRSRPALSPGLDIDFCPPNPG PDGPRRRGRKPTAKRDPGRPR RGRPRIRPLEVPTTAGPASASTP TDGAKKPRGRG
9869	40237	A	9930	503	739	QGWRRRRPISKISESRNMQNFL HALSNCLPEGGA*DRCSSRLEE GRQLPPLLLGSLQVAKKSGGTG WMVRCSCQLFLG
9870	40238	A	9931	1	1148	MGGKGGDSWVISATPLGKCCA AVPLGGNPTLRVDQLWRKQRP PLQQCTASAPGGWVTSMLGAG THAANTGFQLVWSSKRPMYKV LQAFFGVQRSDRSAMNGQGS KCVGMPITHTRQQADLGRGPE ETEDKKQQSRGSDLRSEGE EPYLLRTSKVKDKERILKAARE MKQIIYNGAPIHLAADFVETL QAKKEWCDIFKVLKKKTFYPK MVLTAGPSHPQSVISVSFTGLA NAASLTMSPDHLHGQPGFAGLSS VAAVDWQWALLRPSPPQGRM GLLPICQATQGPQLCVASPSDK EGFLLLFGEIARLTNKGGARL YKCDIVQGVCCEDPLATLDWE LRPDLEQGERPTPERHKPFLG KSFSAPLIKICRYEQWFM
9871	40239	A	9932	333	689	NSFLTCLPPVSI*TDLLQPSAQ WKQLSLARRNVHSTRLAGARR CAASGPSVVAACHYHPVSGHSR LLHGCGHGWGSWQVPEVPPG SPFSLAPVWKKRQTALPAILHL PVEHYYPEL

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9872	40240	A	9933	84	933	PLTSPEAFSNRCGLRGPP/PCVP VGRLLQFNDVSSSLGICLPDSSCC SSWHGPHSLHH/HVQACKASIR ASGTAASANCAFSRYHVHCSIA FQIKVLHNLIVLTVIIPAAEHMA WGPGLAQPNPPHRSAGSHSSWGP EVGPKLSTAILVGTYPQVPPV GLETGPPSLFQPLPISTHTAWNT ENCPANATVIAHPTLAAQGTKN PPTLLVHHCHYQHLKDDGT RRENSLKLGEKVLQTEGIQK GMDPTMEYATNYWKKLQWLK RRQTALPAIHLPEVHYYPEL
9873	40241	A	9934	1	627	MESLDTETSTWGECHRKIRGM VPQVKELAEAEAPPDGA VAE YRREKQKYEALRKQSKKCTS REDQQIINKLPCTNHCIWQSTH EHIPALSDLSGKRAKQVIPVKG GEHYERTLALLNQFKSKLTQAI AETPENDIPETEVEDDEGWMS HVLQFEQKSRKSGKVPMSQDS DTEIYDPRNP/LVNRKREGKK AKSLMREKKERRLK
9874	40242	A	9935	1	371	PMRPAFTRVEMARVLMERNQY KERLMELQEA VRWTE MIRASR EHP SVQEKKKSTIWQFFSR LFSS SSSLPRKRPYPSPVNIHYKSPTE GCSVAAGFSPPPCHLHCDVCPL PRLFQDLEVTGP
9875	40243	A	9936	2	186	
9876	40244	C	9937	109	408	
9877	40245	C	9938	161	341	
9878	40246	C	9939	303	439	
9879	40247	C	9940	201	419	
9880	40248	C	9941	122	307	
9881	40249	A	9942	3	80	YNPAPYKEKTITL/PCPRKLGPP QGS/S*NGPPSSSSSQCSVSFND PHLPEGQVQAAR*WAPPGL
9882	40250	C	9943	249	427	
9883	40251	A	9944	90	244	TVVPHDPCGTD AHCETHMD MCPSHSVMLCGWLTF AEF RGA MGEGG RESFLLNQASFCY*CSQ AGFSSNLWRCSRAGRGN TADE LWCHMTLV AQMPYV KHTWT CVPATVLC SVAGSP LSSGVQW GREGGKASS
9884	40252	C	9945	4	204	
9885	40253	C	9946	340	497	
9886	40254	C	9947	158	184	

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9887	40255	A	9948	200	386	LFYTM*IMAFLLSSSSSPGRPF* RILGGAKVYAGMQRYSFFLIGS RIITYLGIFGRELYFC
9888	40256	B	9949	47	622	
9889	40257	A	9950	1	630	
9890	40258	A	9951	1	782	
9891	40259	A	9952	1	677	MHGLGRWDACPDDEMESGQ SSAAATPSTTGKSNPTSSVPS AAVTPLNESLOPLGDYGVGSK NSKRAREKRDNRNMEVQVTQE MRNVSIGMGSSDEWSDVQDIID STPELDMCPETRLDRTGSSPTQ GIVNKAFGINTDSLYHELSTAG\
9892	40260	C	9953	202	366	S*VIGDVDEGADLLGNDRKK VYTSVQTRPQACTFSVRLVES THAELVGIEGRLYHKIHLPLRVH GAVGYSVLT
9893	40261	A	9954	1	2429	MKEGGWGDPCVGRGVTSGHV LQMKLLPFRQKKAHIMEIQLNG GTVAEKVAWAQARLEKQVPV HSVFSQSEVIDVAVTKGRGVK GVTSRWHTKKLPRKTHKGLRK VACIGAWHPARVGCISARAGQ KGYHHRTELNKKIFRIGRGPHM EDGKLVKNNASTSYDVTAKSIT PLGGFFPHYGEVNNDFVMLKGC IAGTKKRVTILRKSLLVHHSRQ AVENIELKFIDTTSKFGHGRFQT AQEKRAFMDGLSLSPAASDS DYPGEMFLDSDVNPEDPGAD GVLGAGTLVGCA TRCNVPRSN SSRGDTPVLDKGGQGEVATIANG KVNPSQSTEEATEATEVPDGP SEPETA TL RPGLTEHVFTDPAP TPSSGPQPGSENGPEPDSSSTRP EPEPSGDPTGAGSSAAPTMLWG AQNGWL YVHSAVANWKKCLH SIKLKDSVLSLVHVKGRLVAL ADGTLAIFHRGEDGQWDLNLY HLMDLGHPHHSIRCMV VYDR VWCGYKKNKVHVIQPKTMQIEA SAGQGPGEGRLLASSPASSI RKSTRPTHDSKSFDAHPRES QVRQLAWIGDGVVVSIRLDST LRLYHAHTHQHLQDVVDIEPVVS KMLGTGKLGFSFVRITALLVAG SRLWVGTVNGGVISIPLETIVV LHRGQLLGLRANKTSPTSGEGA RPGGIHVYGGDSSDRAASSFIP

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9894	40262	A	9955	9	452	KIKVL SKNSQVTFDFPVPTLLND GQCLGYNSTPYKEKAITL/PCPR KLGPQGSFKTA/APSSSSPSFNF FNGSQNSVTNFWSSCFH*KVLI LKTNNLKLPHAKKKT KV/LQ NILLSF*RFYDALLSLTLLLN LNGQLQTVMRPFHH
9895	40263	A	9956	1	3223	ATATPSTTGKSNTPTSSVPSAA VTPLNESLQPLGDYGVVSKNSK RAREKRDSR/NMEVQVTQEMR NVSIGMGSSDEWSDVQDIIDST PELDMCPETRLDRTGSSPTQGI VNKAFIGINTDSLYHELSTAGS\ EVIGDVDEGADLLGEFSGMGK EVGNLLENSQLLETKNALNV VKNDLIAKVDQLSGEQEVLRG ELEAAKQAKVKLENRIKELEE LKRVKSEAIARREPKEEAEDVS SYLCTESDKIPMAQ
9896	40264	B	9957	176	658	
9897	40265	A	9958	2	5671	AGGPCVRSSRELWTILLGRSAL RELSQIEAELNKHWRRLLEGLS YYKPPSPSSAEKVANKDVASPL LKELGLRISKFLGLDEEQSVQLL QCYLQEDYRGTRDSVKTVLQD ERQSQALILKIADYYYEERTCIL RCVLHLLTYFQDERHPYRVEY ADCVDKLEKELVSKYRQFEE LYKTEAPT WETHGNLMTERQV SRWFVQCLREQSMLEIIFLYY AYFEMAPSDLLVLTKMFKEQG FGSRQTNRLHVDETMD
9898	40266	A	9959	1	404	MVDQEAIFGCKNRNNCSHLEPP VSRLEGGAFVRDLLSPQTQYLLA SCPYYDGSFVIQIPSSNLFMV VVDSSCLCESAPITMAPIEIRYI LLCEVHSLPRKPENARECGGA PSL\QAQTVLLLLPLLLMLFSR
9899	40267	A	9960	1	1374	
9900	40268	A	9961	102	205	

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9901	40269	A	9962	1	1527	MVPDAAVLAQLAIRARVNRRW PTGLSAPHLCGAACSRCHAAI AKYFGDALPACAGKGDHCQNP TAVRRRLLEALERSSSWSKTCIG PSQNGFDPPELYEGGRKGYGG FSRYDEGSGSGDEGRDEAHK REWNLFYQKQMLRKGDPKI EEFVPPDENCLKEASSRRIPRL TVKAREHCLRLLEALSSNRQS TRTADADAFRAKAVELEHETF RNAKVANLYKASVLKKVADIH RASKDGQPYDMGGSAKSCSAQ AEPPEPNEYDIPPAHVYSLKPK RVGAGFPKGSCFPQTATELMET TRIREQAPQPERGGEHPPSRPC GLLDEGSEPLPGPRGEVPGGS AHYGGSPPEKKAKSSGGSSLA KGRASKKQQLATAAHKDSQS IARFFCRRVESPALLASAPEAEG ACPSCEGVSGTPDWQQRSTQGR KMEPGDIRLPLRLRSASGRGQ APARPETRAPLKSSPPLQRTHG KGKRPFRPARRTQASLRRGHA PQPIPPS
9902	40270	A	9963	2	99	
9903	40271	A	9964	115	1360	ENGQLHMVNALDGVRSLSLQK PRPFRLLFPKGFSELVCMNREDD TARKEKTDHFIFTYTREGNLR YSAKSLFSLVLGFISDNVDHIDSLI GFPEQIAEKLFSAAEARQKFTPE GAGU ^U RALQKFTGGLWEVWVL CSLCFLWLKLPDICCKLGDEHE LLEHLTNEALSRY*PVTTCT*IV SVLF*RLIQDYRVVMKRGLENL TL ^L DL ^S CKFSSKL*ILMLEEWP *RSCSSFSGTGLKVRLLVPSLIFL DSTI*YFACANWEFDHSNCKTE GWADQVLQIFLPCG*CSFSS*FQ VSYPTSR ^E TAESCFRSTLSLVQN MHDEAAQRFCEKFPFL* ^S FLPFI CILKAVRLF*KLQFYKEKAPDC HGPVLKHEA ^{IS} SSQESKSKKRP FEESETEQN ^{SS} QPSKQKYVCL AVEDWDL ^{LS} NSY

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9904	40272	A	9965	3	1026	DNVDHIDSLIGFPEQIAEKLFFA AEARQKFTEPGAGLRALQKFTF AYGSLVLCSLCLRNRYLVISEK LEEIKSFRELTCLDLSCCKLGDE HELLEHLTNEALSSVTQLHLKD NCLSDAGVRKMTAPVRVMKR GLENLTLADLSCNPEITGGRA LGYPFLFRGNLNCFRDISGDR GSRDIKTLKHKLQTHIGLVHSH VPLKEFDHSNCKTEGWADQIV LQWERTVAEAVKPRETSEPIAA AQRFGKRSRAEAPL/CPLAD THMNSSVKLQFYKEKAP/DCH GPVLKHEAISKPRSPKSKSRP FEESETEQNNSQPSKQKYVCL AVEDWDLNSY
9905	40273	A	9966	1	289	VKCHLHRPILWDPWKTSGIQQ VLTPL*KAMEKLEAILLICSLE AIGLITLPSLSMTQFLQLHVECC YVSPDQTPYFIDVETAMKDEV TVHNPHG
9906	40274	A	9967	1	1413	MVVPPIAELKNLEVLNLFNNQ IEKLPTQISRLQKLKHLNLGFLS PCNSMNRNLNISPQGFSLPALE VLDLTYNNLNENYLPGNFFYLT TLCALYLSNDNFILPPDGIKLT KLQILSNRDNLISLPKEIRVLT QLKELHIQGNRLTVLPPELGSR GGSGSRFSAETA TGGAQNAPP VLSAGTIFKQRRNPSPALRG GSVAA*PSPAAAYGKDQREH LPTAAGDGVGWEPTRDIQVGS ATAQALSQANAARGRLSTAQA AGSLHVECCYVSPGQTLFYTDV EIEAMKDESRGISILYKHRHLK VPLDQKLPKSGHQPDGYGQH DHKPMQMTSLRNATLR
9907	40275	A	9968	1	619	MNRNLNISPQGFSLPALEVL TYNNLNENYLPGNFFYLTLCAL LYLSNDNFILPPDIGKLTQLQ LSNRDNLISLPKEIRVLTQLKE LHIQGNRLTVLPPELASSRCGP LSHPYAGKRIPRNAVFKFEQNT PWHTPPKKAGREMLLDVGTGP EAATSKPPAFLHRRRGSGWNP RSRSSSLQRTWPFGSREAEYPP ASGA

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9908	40276	A	9969	810	1672	GLPSVTMSKSLKKLVESREKN QPEVDMSDRGISNMLDVNGLF TLSHITQLVLSHNKLTMVPPNIA ELKNLEVLNFFNNQIEELPTQIS SLQKLKHLNLGMNRLNLTLPRG FGSLPALEVLDTYNNLSNSL PGNFFYLVTTLRALYLSDNDF EILPPDIGKLVTKLQILSLRDNDL ISLPKEIGELTQIKELHIQGNRL TVVPPPELGNLGF*LGQKQVFK AENNPVWVTPIADQFQLGVSHVF EYIRSETYKLYLGRHMQANPEP PKKNNDKSKKISRPLAANNR
9909	40277	C	9970	120	347	
9910	40278	A	9971	2	10018	LCVSPVTAGRPASRLREMEVEQ EQRRRKVEAGRTKLAHFQRQK TKGDSHSEKKTAKRKGSAYD ASVQEEPSVTKEDSALCGGGDI CKSTSCDDTPDGAGGAFAAQF EDCDGEKREDLEQLQKQVND HPPEQCGMFTVSDHPPEQHGM FTVGDHPPEQGRGMFTVSDHPPE QHGMFTVSDHPPEQGRGMFTISD HQPEQGRGMFTVSDHTPEQRGIF TISDHPAEQGRGMFTKECEQECE LAITDLESGREDEAGLHQ
9911	40279	A	9972	2	5196	APLDGEVELLQKLEKLDEFN ELAIQKESADQVLMQEEIKR LEEMNINIRKKVAQLQEEVEKQ KNIVKGLEQDKEVLKQKMSS LLLASTLQSTLDAGRCPEPPSGS PPEGPEIQLEVTQRALLRRESEV LDLKEQLEKMKGDLESKNEIL HLNLKLDMQNSQTAVSLRELE EENTSLKVIYTRSSEIEELKAIE NLQENQKRLQKEKAEIEQLHE VIEKLQHELSLMPVVHEVSDS QAGSLQSELLC
9912	40280	A	9973	1	8277	GEFGSEKKTALHEKEETLRQS AQAQPFHQEEKESLSQLQKKN HQVQQLKDQVLSLSHEIECRS ELEVLQRRRERENREGANLLS MLKADVNLSHSREGALQDALR RLGLGFGETLRAAVTLRSRIGE RVGLCLDDAGAGALSTAPAL EETWSDVALPELDRTLSECAEM SSVAEISSHMRESFLMSPESVRE CEQPIRVVFSLSLAVDGLMEM ALDSSRQLEEARQIHSRFEKEFS FKNEETAQVVRKHQ
9913	40281	A	9974	1	393	

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9914	40282	A	9975	2	153	
9915	40283	A	9976	184	790	KFTKHISMNQEDLDPDSTTDVG DVTNTEELIRECEEMWVKDME ECQNKLSLIGTETLTDNAQLSL LIMQVKCLTAELSQQWKKTPPE TIPLTEDVLITLGKEEFQKIRGQ DLEMVLSTKESKNEKLKEDLER EQRWLDEQQIMESLNLVHSE LKNKVETFSERIFNELKTKML NIKEYKEKLLSTLGEFLEDHFL
9916	40284	C	9977	23	217	
9917	40285	A	9978	25	100	
9918	40286	A	9979	1	2850	
9919	40287	A	9980	108	1132	HPHQVETSRDVAGEQSHAVAF MSTGISQADVCRLEWFSAPNLK GRPRKKKPCPQRDSFSGVKDS NNNSDGKAVAKVKCEARSALT KPKNNHNCKKVSNEEKPKVAI GEECRADQAFVLVALYKYVMK ERKTRIERIPYLGFNQINLWTMF QAAQKLGGYETITARRQWKHI YDELGGNPGSTAATCTRRHYE RLILPYERFIKGEEDKPLPPIKP RKQENSQENENKTKVFGTKRI KHEIPKSKKEKENAPKQDAAE VSSEQEKEQETLISQKSIPEPLPA ADMKKKIEGYQEFSAPLASR VDPEKDNETDQGSNSEKVAEE AGEKGPTPLPSAPL
9920	40288	B	9981	177	3543	
9921	40289	B	9982	63	374	

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9922	40290	A	9983	1	2023	MGGGSWAPTGLCPQLSLLAMS PEKRKLA AQEGQFTPEPRPEEP KEKLHTEEFSEYFFRAPEKDM VSM AVLPLARARGHLWAYSC PLRQP LLKRVHANVDLWDIAC QIFVDILPHQACTSAVVGVSV YQSVSAWSCPSTVLDSTHIL RYMGDYPSRQAWPTLELTDQIF TLALQHPALQDEVYCQILKHLT HNSDRHSEERGWQLLWCTGL FPSPKGLLPHAQKFIDTRRGKLL APDCSRRIQKVLRTGPRKQPPH HVEVEAAEQNVSRICHKIYFPN DTSEM LEVVANTRVRDVCDSI ATRLQLASWEGCSLFIKISDKVI SQKEG DFFDSLREVSDWVKK NKPQKEGEASVELGEGVAGW VEGALAASVRPMPIHPSIRSRVS LGC GNQALGPGGAPVTLPYQ VYFMRKLWLNISPGKDVNADT ILHYHQELPKYLRGFHKCSRED AIHLA GLIYKAQFNND RSQLAS VPKILREL VPENLTRLMSSEEW KKSILLAYDKHKDKTVEEAKV AFLKWICRWPTFGSAFF/EGEG KPCPTGPGPTQAASAQSPSPSRPS VNQHTSWQTSESPYDPVILIAIN RHGVLLIHPKTKDLLTTPFTK ISSWSSGSTYFHMALGSLGRGS RLLSETSLGYKMDDLTSYVQ QLLSAMNKQRGSKAPALAST

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9923	40291	A	9984	428	2502	VSKEIVYNKLLPYAERLDAESD LQLAQIKCNLGRAVQLQELWP GGLFWTRKLS/TRAQPLALSSLE LSPSGDPRVVTPEVKYSSRPPCH FPTGLPGSLPSLYVLRICFSRSV RVVVFPPGGPWVAQGP RPGR ETWGFTMLLRIRLYGRKFSKE DHVLFKLLYELVSIPKLEISMM QG FARLLINLLKYFPADATAEM LEEWRPLMCPFDV/TMQAITY FEIFLPTSLPPELHHKGFKLWFD ELIGLWVSQNL PQWEGQLVN LFARLATDNIGYIDWDYPYV PKG GPSKLVQKHLA GLFNSITSFYH PSNNGRWLNKLMKLLQRLPNS VVRRLHRERYKKPSWLT PVPDS HKLTDQDVTDFVQCIQP VLLA MFSKTGSLEAAQALQNLALMR PELVIPPVLERTYPAETLT EPH QLTATLSCVIGVARSLVSGGRW FPEGTHMLPLL MRALPGVDPN DFSKCMIT/FQIATFSTLVPLVD CSSVLQERNDLTEVERELCSAT AEFEDFVLQFMDRCFGLIESSTL EQTRETE TEKMT HLESVELG LSSTFSTLTQCSKEIFMV ALQK VFNFSTSHIFETRVAGRMVADM CRAAVKDWGKPGDLWNLGIQ WHVPSSEEVSAFYLLDSFLQP ELVKLQHC GDGKLEMSRDDIL QSLTIVHNCLIGSGNLLPPLKGE
9924	40292	A	9985	2	5396	AESDLQLAQIKCNLGRAVQLQEL LWPGGLFWTRKLS TYRILYGR KFSKEDHVLFIKLLYELVSIPKL EISM MQFARLLINLLKKKELL SRADLELPWRPLYDMVERILYS KTEHGLNWF PNSVENILKTLV KSCRPYFPADATAEMLEEW RP LMCPFDVTMQAITYFEIFLPTS LPPELHHKGFKLWFD ELIGLWV SVQNL PQWEGQLVNLFARLAT DNIGYIDWDYPYVPKIFRILRSL NLPVGS SQVLVPR
9925	40293	A	9986	1	477	VREFFGRRFRGCCGALRPYKR LVDNIFPEDP/GYVCIAMEALDQ LLMACHCQSINLFVESFLKMVA KLESEKSNLQILGTNSFVKFA NIEEDTPSYHRSYDFVSRFSEM CHSSHDDLEIKTKIRMSGIKSLQ GVVRKTVNDELQANWDPQH

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9926	40294	A	9987	1	2371	AGGARLRPARGRPPRLPPRP PCRPPVPAPTVNERRAPPRAG WERKSDAGLSRGARPAEMYGV CGCCGALRPYKRLVDNIFPED PEDGLVKTNMEKLTIFYALSAPE KLDRI GAYLSERLIRDVGRHRY GYVCIAMEALDQLLMACHCQS INLFVESFLKMVAKLLESEKPN LQILGTNSFVKFANIEEDTPSYH RSYDFFVSRFSEMCSSHDDLEI KTKIRMSGIKLQGVVRKTVN DELQANIWDQHM DKIVPSLLF NLQHVEEAESRSPSLQAPEKE KESPAELAERCLRELLGRAAFG NIKNAIKPVLHLDNHSLEWPK VFAIRC FKIMYSIQPQHSHLVQ QLLGHLDANSR SAATVRAGIVE VLSEAAVIAATGSVGPVLEMF NVTLLRQLRLSIDYALTGSYDGA VSLG TKIIEHEERM FQEAVIKT VGSFASTLPTYQRSEVILFIMSK VPRPSLHQAVDTGRTGENRNR LTQIMLLKSLQVSTGFQCNNM MSALPSNFDRLSTALMEDAE IRLFVLEILISFIDRHGNRHKFTI STLSDISVLKLVDKCSRQDTV FMKKHSQQLYRHIYLSCKEETN VQKH YEALYGLLALISIELANE EVVVDLIRLVLA VQDV AQVNE ENLPVYNRCALYALGAAYLNLI SQLTTVP AFCQHHIEVIETRKKE APYMLPEDVFVERPRLSQNLDG
9927	40295	A	9988	1	662	IPGSTISWSPAAARGLSVCRCCR LHPASAMDLFGDLPEPERSRP AAGKEAQKGPLFDLDLPPASST DSG/SSLQALPGSGGPLFDLDL PASSGDSGLATSISQMVKTEG KGAKRKTSEEEKNGSEELVEK KVCKASSVIFGLKGYVAERKGE REEMQDAHVILNDITEECRPPSS LITRVSYFAVFDGHGGIRASKF AAQNLHQNLIRKFKPKGDVISVE

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9928	40296	A	9989	3	1145	KEAQKGPLLFDDLPPASSTDSA VAALGTTTPSPVTLWFLQTRRGS KIWRNSLDYQSKVGAEPWCHE RQQKADRFLGKRGRVPASSVIF GLKGYVAERKGEREEMQDAH VILNDITEECRPPSSLTRVSYFA VFDGHGGIRAKSFAAQNHLQN LVRKFKPGDVISVEKTVKRCLL DTFKHTDEEFKQASSQKPAW KDGSTATCVLAVDNILYIANLG DSRAILCRYNEESQKHAALSLS KEHNPTQYEERMRIQKAGGNV RDGRVLGVLEVSRSIGDGQYK RCGCHLCAPTSRRQQLTPNDR FILVWPCDGLFKVFTPEEAVN FILVSCLEDEKIQTRGKSAADV RLRSSPATRLANKAVAAGARP DNVTVMVVRIGH
9929	40297	A	9990	2	419	
9930	40298	A	9991	2	1842	CLRLIAAAPPI/AIEPATTSLSLAF LLLQRDQSSRTGLPEEKEEVT MDTSENRPENDVPEPPMIADQ VSNDDRPEGSVEDEEKKESSLP KSFKRKISVVSATKGVPAGNSD TEGGQPGRKRRWGASTATTQK KPSISITTESLSLIPDIKPLAQQE AVVDLHADDRISEDETERNGD DGTHDKGLKICRTVTQVVP AE QGENGQREEEEEKEPEAEPPV PPQVSVEVALPPAEHEVKKVT LGDTLTRRSISQKSGVSITIDD PVRTAQVPSPPRGKISINIVHISN LVRPFTLGQLKELLGRTGTLVE EAFWIDKIKSHCFVITYSTVEEA VATRTALHGVKWPQSNPKFLC ADYAEQDELDYHRGLLVDRPS ETKTEEQGIPLRPHPPPPVQPP QHPRAEQREQERAVREQWAER EREMERRERTRSERWDRDKV REGPRSRSRSDRRRKRERAKSK EKKSEKKEKAQEPPAKLLDDL FRKTKAAPCIYWLPLTDSQIVQ KEAERAERAKEREKRRKEQEE EEQKEREKEAERERNRQLEREK RREHSRERDRERERERDRGRD RDRDRERDRERERDRDRDTK RHSRSRSRSTPVRDRGGR
9931	40299	A	9992	1400	2959	
9932	40300	C	9993	169	430	

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9933	40301	A	9994	2	199	STSR/KMTELEEVTLNGKPLQALRV/TDLKAALEQRGLAKSGQK SALVKRLKGVRSSRCWGVGGERTR
9934	40302	A	9995	1	4033	MWRRKHPRTSGGTRGVLSGNGR GVEYGSGRGHLGTFEGRWRKL PKMPEAVGTDPTSRKMAELEE VTLDGKPLQALRVTDLKAAL QRGLAKSGQKSALVKRLKGA MLENLQKHSTPHAAFQPSQIG EEMSQNSFIKQYLEKQQLLRQ RLEREAREAEEEAESAESDE MIHPEGVASLLPPDFQSSLERPE LELSRHSRPRKSSSISEEKGDSD EKPRKGERRSSRVQARAAKLS EGSQPAEEFEEDQETP
9935	40303	A	9996	3	6305	ELEEVTLDGKPLQALRVTDL KAALEQRGLAKSGQKSALVKRL KGALMLENLQKHSAPHAAPFP NSQIGEEMSQNSFIKQYLEKQ ELLSSRLEREAREA ALEGGKSS SISEEKGDSDDDKPRKGERRSS RVQRARAALAEQSQPAEEEEE DQETPSRNLVRADRNLTETEE EEEEEEEEEDDEEEGDDEGQK SREAPILKEFKEEGEEIPRVKPE EMMDERPKTRSQEQEVLERGG RFTRSQEEARKSHL
9936	40304	B	9997	99	332	
9937	40305	A	9998	3	236	YIFTILNTLQGVFILLFGCLMDR KIQEALRKRFCRAQAPS/SHHLP GELLPSDPQLCIQEHVRRHSM LLRGHGHSQKL
9938	40306	B	9999	1	3099	
9939	40307	A	10000	355	858	RASSAAGWPSRKTSASSAFSS CWSS*QS*SYSSSSLS/HGQGE RERQEGPEGRPAAPVPHREQRG AERLEHHPG*DAMLWCH*LH RLVPSAGGEHGRPLHGHGELPG LRAQRHHAFVENGLL*KGEDV VR*Q*ARAGHGGDVPHPHADP GHGLLDPLPAHPDPW

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9940	40308	A	10001	3	1478	GRALTSRRRACQGAEEAAGSPA QVTTSTGHHQHRSQHRSPPA QVTTSTGHHQHRSQAATTSTG HHQHRPPPAQVTTSTGHHQHR SPAQATTSTGHHQHRSVHTGH HQHRS/HTSTGHHQHRSQAAT TSTGHHQHRSPPAQVTTSTGHH QI/GIHHQHRSPPA/HGHHQHSSPP A/HGHHQHRSPPA/HGHHQH/H HHQHSSPPA/HGHHQH/HQ/P GHHQHRS/P/HSTAHHQH/HGHHQ HSSPPA/HGHHQH/HGHHQH SSPYQH/HGHHQHRSPPA/HGHH QHRSVHTAHHQHRSQH/HGHH Q/PGHHQHRSQAATTSTGHTS TGHHQHRS/HTSTGHHVHTGHH QHRSQHRSPPAQAATTSTAHH QHSS/HTSTGHHQHRS/P/HSTGH HQHSSPPA/HGHHQHSSPPAQA TTSTGHHQHRSPPA/AAAADPS ALSAARRGSPGA/AAAPQSRGTR GGGAPAKW/GSALGLG/WAGR ARARLGRPLRPILGAMPAPRT PRERREHGEVE
9941	40309	A	10002	5	341	PPRRRGQKRRQK/REEGERERG ERKRPRDRKEERKG/RRTKRQG GTETRESRPNQDGPQAKRKKQ TAGQREEREQGRSSRQGA ERERGRETTHTCLLVPCW/WE NGRLCL
9942	40310	A	10003	1	582	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLIMDEEALGNCGSS GSQTCEKAVCIHNLPLFTSHAF QSGFPFHQSPEASLPKMVSQAQ TARLSLESMLRELGFHISEAGFP APVSGYEHNSPSRPGVMPGSGT HWWKORSQKVEDNRTMVKGIO GDTVKHQQLPRINGN*LAYM TAKSRTWL/PVQDQDGPQT
9943	40311	A	10004	1	332	MEYYAAIKNDFMSFVGTWM KLETILSKLSQGGQKTKHHIFSLI EAQAQVSPPPYPAPQELTQPL LQQPRAPEAPAQ/PPGSLLTAT VRLSASPGPLGIFDQLLPRCGF

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9944	40312	A	10005	1	1108	MLAQRGGRSVVQCIASVSKLSV TQRSFVTLMDEEALGNCGGSS GSQTCEKAVCIHNLPLFTSHAF QSGFPPHQSPASLPKMVSDAQ TARLSLESMRELGFHISESAGFP APVSGYEHNSPLSTTNLSGSPSR RRQPPVSPLTLSFGPEAHQGFSR QLSSTSLAPYPTSQMVSSDRS QLSFLPTEAQAVSPPPYPAPQ ELTQPLLQOPRAPEAPAQPPQA ASSLPQSDFQLLPAQGSLLTNFF PDVGFDQQSMRPGCLSSGTAS GATGSRRELQDSFHLRSPYSNC GSLPNTILPEDSSTSLFKDLNSA LAGLPEVSLDVTFFPLEELQI EPLSLDGR/HMLSDSSMGLLDP SVEETFRADRL
9945	40313	A	10006	1	691	MRERARPPRGCLAPPLPPG/E/S GADGQAPPRGRGTAGG/ELAA AGCGARAAMHRGAVPSAEPVP ASP/DGRWQWAGEGRPCNAAG GSR/T/GAGCGWPAPAGWGPAP SSAASCPASGGATHRGASAAPG GGGGGRAP/GPDALQRRAGAP PNAPGTGPSPESSLRMRRESA AGAPAVGMMAAATSLGQALGPR VPRSPYRTAVVLSRSSAFGYFSL ITLARYTLGCLSHSDITLFECL
9946	40314	A	10007	1	1065	MADKRAGTPEAAARPPPLAR EGDARTVPAARAREAGGRGSL HPAAGPGTAFFSPGRGEAASTA TTPSLENGRVRDEAPETCGAEG LGTRAGASEKAEDANKEEGAIF KKEPAEEVEKQEGEEKQEVA AEAQEGPR/PPEPWCPN/CMDP LEAIQWEAEAVSAQADRAYLP LERRFRGRMHRLYLARRSFIIQNI PGFWVTAFLNHPQLSAMISPRD EDMLCYLMNLEVRELHRSRTG CKFKFRFWSNPYFQNKVIVKEY ECRASGRVVSIAIRIRWHWGQE PPALVHRNRDTVRSFFSWFSQH SLPEADRYAQIHKDDLWPNPLQ YYLLGDRPCRARGGLARWPTE TPSRPYGFQSG
9947	40315	A	10008	2	433	
9948	40316	A	10009	125	289	TRKSGCLKIRFHVFLFLYRNP MDVADAYVTVFVRHSQDVLRD KVNEEMYIERLF
9949	40317	A	10010	1	774	
9950	40318	A	10011	1	1749	

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9951	40319	A	10012	1	1175	MFASCYMRNIPKRVIEFGTCLW RTCKNCLSSLEFKMPFPHPHRSV TYNLKQERCRLSLDASLSCMLS IEDSQIPNTRLECKGLSRCTSV ASTCPLVTFSFCLFSPKMEQYS KDDSEKTLKGWFSFGQVFVLD EYCARNGVRGCHRHLCYLRDL LERAENGAMIDPTLLHYFAFC ASHVHGNSQQMHHVYLSGLPPN TDPEGSKTPSPPEAKKDTKK ESKKRKDKTQANQELKRLTS NLP/ICEPTQW*TFPKYQIYQLT SL*ASHKCLLFRHRHG WLLY/D ADNGSGTSEDFLWKLDALQTFI RDLHWPEEEFGKHLEQRKLKLM ASDMIESCVRKTRIAFEVKLQK TSSIQQIFRVQFNMPCFNVM GLMAKGSIQPKLCSMEMMQE
9952	40320	A	10013	1	3951	MLDPSSSEESDEIVEESGKEV LGSAPSGARLSPSRTSEGSAGSA GLGGGGAGAGAGVGAGGGGG SGASSGGGAGGLQPSRAGGG RPSSPSPSVVSEKEEELERLQK EEEEERKKRLQLYVFMRCIAYP FNAKQPTDMARRQKQISKQQL QTVKDRFQAFNLNETQIMADE AFMNAVQSYEYVFLKSDRVAR MVQSGGCSANDSREVFKKHIE KRVRSLEIDGLSKETVLSSWM AKFDAIYRGEEDPRKQQ
9953	40321	A	10014	1	457	VAAVAATALKGGGARNARVL RGIFAGATAINKASHNRTRALQ N/HTASPEGKEEPIEPLIPGTGKY IPQKRGAKNPHENCGNLPWAIG FPCGILLDFSPKR/RKLDKDRV KQMKARQNMVSNMTGEYESQ RFRASSQSAPSPDVGSVSGV QT
9954	40322	A	10015	464	863	TPAAVESSPSIPLAPRLLYTG*PL QP/GRGQGC/PRIVPCCPKP/V CAPRPPWPQRSQRLRSAGLSPL CAAAAAPPVPAGSHGTPGRVWA PLSNSACCTCCRHP* ¹ LHPGTL D PGRWQAR*GPALPRGPIPGSP
9955	40323	A	10016	1	300	PKILVGASKVLLLSAHLKLGFI DTLSRQAKAVDVASRVTHYSN LL/CDFLQIGIVATTKAALQYP IAFPGPKDMVERVKELGHSITQ QFRRVLGQLAAA

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9956	40324	A	10017	3	291	ARI/VFAISFYFMPCCPLTA/SSFYLLSGLLDAFDGHALALLIKFCVRGSESHKMIDLSGNNP/VLRIYYTS/RVGSVGLFR/MGLWVTAPIALLKSLISVIT
9957	40325	A	10018	1	344	VLIRARLSDNPAVRGSESHKMI DLFCYPVLRIYYTSRPAFLTCA GNELFYCLLYLFHFSEGLVGS VGLFRMGLWVTAPIALLKSLIS VIHLTAARNMAIALGRQDRA KKK
9958	40326	A	10019	1	469	MVRSCFVDRRKRCNFNRQAS EVLNEYFYSHVSNPYHSEAKE ELAKKCGITVSQVSNRFGNKKI RYKKNIGEFQEEANIYAVKTAV SVTQGGHSSTSISPTPPSCAGCG GSFNISGSGDMFLGMPGLNGDS YSASQALES GDASPAQSEMPK MGT
9959	40327	A	10020	232	1728	PGGGRGGAGRGPQGGPPAMDE RLLGPPPPGGGRGGLGVSGEP GGPGEPPGGGDPGGSGGVPG GRGKQDIGDILQIMTITDQSLD EAQGQKTPLNCPARKKPVLFSGRGEIKEKTGLSIRSSQEEEPVD PQLMRLDNMLLAEGVAGPEKGGGSAASAAAAASGGGVSPDN SIEHSDYRSKLAQIRHIYHSELE KYEQACNEFTTHVMNLLREQS RTRPVAPKEMERMVSIHRKFS AIQMLKQSTCEAMMLRSRFLDARRKRRNFSRQATEVLNEYFYSHLSNPYPSEEAKEELAKKCG ITVSQVSNRFGNKKIRYKKNIG KFQEEANIYAVKTAVSVTQGG HSSTSPTPPSSAGSGGSFNISGSDMFLGMPGLNGDSYASQ/V WESLRIISMARGVIGG*TFGG RARCYSPRIMRANGSWQEA VTPSSVTSPTGPGSVHSDTSLI LPLRVTVGVGALTRLEEDAGFQ RTNPNTGEAQDREGPMGSSPP
9960	40328	A	10021	337	830	IPRLPGSIQLSFVGAFGQTSKSLF FLCVFILLFQFFLCVYVPMCT E/RRINIPGPGCGMCLSVKGRC EPVLKEFGFAWPESLNCSEKFP QNDHNHMCMEGPGDEEVPLPH KTIQPGEECHSVGTNSDQYIW VKRSLNCVLKC/GYDACLYSRS AQEVTDIWMA

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9961	40329	A	10022	1	1561	MAWRGAGPSVPGAPGGVGLSL GLLLQLLLLLGPARGFQDEEER RCDPIRISMCQNLGYNVTKMPN LVGHLEQTDALQLTFTPLIQ YGCSSQLQFFLCGGYVPMGTEK INIPGPGCGMCLSVKRRCEPIS LKEFGFA/WPESLNCSE/YPHP QNDMHNPHVPWKGGDEEVPLP HKTPIQPGEECHSVGTNSDQYI WVKRSLNVLKCGYDAGLYSR SAKEFTDIWMAVWASLCFISTA FTVLFTLIDSCRFSPERPIFLS MCYNIYSIAIYVRLTVGRERISC DFEEAAEPVLIQEGLKNTGCAII FLLMYFFGMASIWVVLTLT WFLAAGLKWGHEAIEHSSYF HIAAWAIPPVKITVILIMRLVDA DELTGLCYVGNQNLDAITGFV VAPLFTYLVIGTLFIAAGLVALF KIRSNLQKDGTKTDKLERLMV KIGVFSVLYTVPATCVIACYFY EISNWALFRYSADDSNMVAVEM LKIFMSLLVGITSGMWIWSAKT LHTWQKCSNRLVNYT
9962	40330	A	10023	496	664	FYKAVPSIHQLDVPQTHQP*ST GLVQKVYSRSKHVSL*PKYYY VQLVPKLDHLIFY
9963	40331	A	10024	1	954	
9964	40332	A	10025	127	481	GRTREATWRVYSVAVGVSRSQ IIRIAREFADNADKTHGRSMIIV GAGLNHWYHLDMMNYRGLINM LIFCGCVGQSGQ/GWAHYVGQ EKLRPQTGWQPGVCLDWQRP RHMNSTSYFLLVP
9965	40333	B	10026	161	234	
9966	40334	A	10027	3	199	DDFLDLAESPNASDTESSEIPL KAGPGTLIMATGVQDFNRTEFD RLNAIKGHLEI/ALLEKHFFT
9967	40335	A	10028	37	455	LRTHLLPRLSQSSPVSSLPALL RPPGQLELWAVPAGPGPLIAA DASQNLQHMALASQSRGRV DMSDGHVLAVSPIEEELRKLRE ETNAEMLRQELDRERQRMEL EQKVQEVLKARTEEQMAQQPP KGQAQASNGA

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9968	40336	A	10029	1	1721	DKIRFRGHKRDDFLDLAESPNA SDTECSDEIPLKVPRTSPRDSEE LRDPAGPGTLMATGVQDFNRT EFDRLNEIKGHLEIALLEKHFLQ EELRKLREETNAEMLRQELDRE RQRRMELEQKVQEVLKARTEE QMAQQPPKQQAQASNGAERRS QGLSSRLQKWFYERFGEYVED FRFQPEENTVETEEPLSARRLTE NMRLKRGAKPVTNFKNL LSDWYSVYTSIAFTVYMN VHGWAIPLFLAILRLSLNYLI ARGWRIQWSIVPEVSEPPVPPK EDLTVSEKFLVLDVAQKAQN LFGKMADILEKIKNLFMWVQP EITQKLYVALWAAFLASCFFPY RLVGLAVGLYAGIKFLIDIFIK RCPRLRAKYDTPYIIWRSLPTDP QLKERSAAVSRRLQTTSSRSY VPSAPAGLKEEDAGRFHSTKK GNFHEIFNL TENERPLAVCENG WRCCLINRDRKMPDTYIRNGV LYVTENYL CFESSKSGSKRKN VIKLVDTIDIKYKVL SVLPGSG MGIAVSTPSTQKPLVFGAMVH RDEAFETILSYIKITSAASGG
9969	40337	A	10030	18	573	
9970	40338	C	10031	71	205	
9971	40339	C	10032	190	243	
9972	40340	A	10033	18	283	
9973	40341	A	10034	1	190	
9974	40342	A	10035	1	135	
9975	40343	C	10036	90	137	
9976	40344	B	10037	272	560	
9977	40345	A	10038	3	422	
9978	40346	A	10039	205	1090	
9979	40347	A	10040	1	2142	

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9980	40348	A	10041	15	1524	FPGRFRFRAEGERTCEAPPRDEP PADGALKRAELKTQANDYFK AKDYENAIKFYSQAIELNPSNAI YYGNRSLVYLRTCEYGYSL*D ATRAIELDKKIYIMGYRRAVAS NMALGKFRAALRDYETVVVKV KPIIDKDAKMKYQECNKIVKP KAFAERIAAGDEHKRSVVDSLDI ESMTIEDEYS*PKLEDGKVITIS MKELMQWYKQDKLHRKCAY QILVQVKEVLSKSLTLVETTLK ETEKITVCGDTHGQFYDLLNIFE LNLGPSETNPYIFNGDFVDRGSF SVEVILTLFGFKLLYPDFHILLR GNHETDNMNIQYGFGEVKA KYTAQMYELFSEVFEWLPLAQ CINGKVLIMHGGLFSEGDVTLTD DIRKIERNRQPPDSGPMC/DLLW SDPQPQNGRSISKRGVTCQFGP DVTKAFLEENLDYIIRSHEVK AEGYEVAHGGRCVTVFSAPNY CDQMGNKAS/YIHLQG/SDLRP/ QFHQFATAVPHPNVK/PMAYAN
9981	40349	A	10042	94	188	VIEHLVSDGLDFL/NLVICPPR PPKVLGLQA
9982	40350	A	10043	419	495	EPTNENSPIALSR*VNSQKISMK AV
9983	40351	A	10044	1	265	EMESRSIA/RMECSGSISAHCKL RLPGSHHSPASVSRVAGTTGTC HHARLIFLYF/LETFGHFVSHD GLHLL/NLVICPPRPPKVLGLQA
9984	40352	A	10045	3	706	ADAWAWPHC/CTVLL*CLGFA GVLFGWPSLVFVKNEYFKD LCGPDAGPIGNATGQADCKAQ DERFSLIFTLGSFMNFMFTFTG YIFDRFKTTVARLIAIFFYTTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIKLLYEK GISLR/VLLHLHLCLQYLACSTH FPDPAGAHPIPTAPQLQLWPV PWEVHHKREGNS

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9985	40353	A	10046	1	1413	MKRGNGSRRRRLLENNGVVF HIESFAQIPKDEKSRKLLGPIEH WTFVVEKGKGPETGTVSMV LEDGEVEADIKQGSVVGCCNV PPDAARERAEKAYMDGEQPTLI LLWLWLKKQIPVHKGTHSVGR HQTELLPNNGGGVVRFFYTAT LIIAFTSAGSAVLLFLAMPMLTI GGILFLITNLQIGNLFGQHRSTII TLYNGAFDSSSAVFLIKLLYEK GISLRASFIFISVCSTWHVARTF LLMPRGHIPPYPNYSYGLCP GNGTTKEEKETAHENRELQSK EFLSAKEVSTYTNAFAFTQFGV LCAPWNGLLMDRLKQKYQKE ARKTGSSTLAVLCSTVPSLAL TSLCLCGFALCASVPLPLQYL.T FILQVISRSFLYGSNGRFLTAF PSEHFQKLFGLVMALSAVVS LQPFIFTLIKGSIQNDPFYVNV MFMLAILLTLPLPSGISGMPYL
9986	40354	B	10047	316	395	
9987	40355	A	10048	1	1614	RMQQQAVMHHYMQQQQQQQQ QQLGGPPTPAINTPVHFQSPPPV PGEVLKVGVPVLCPPCPH*SQ PPLEPLPYLSETYGNKFAAHIS AQALRNPHQPPQGCELDTC PPPLATVLP/ISPMAMLHIGSNPE REVSEELASGHAACRAHCC ASETMPNTVLLARVGWVCKGS REGGTHCGSEPGESGVTSSSCP ADLTQKRELGTASLYPCAF PTPPSFSPLPAAPLPASFLVLT WAG*KANDL*VRFRLGRVMG LGGQQLTRLALLQKSRELEN HSRRLEMTNKQLWLRQVWS* TWTSVLTTLNLAPGPKGQYFR MFCFGNKQSSASLNTYQLEVL FCETLILAPTLAPSSMAHLEL ALKAIVTLKVPHVTSVQWAWP MQAHSTSTLTSLAQVVKQEL PSEEGPGEALMLGAEPDPEPL PALPPQAPLPLTPQPPFHHLD FSHLSFGGREDEGPGYPEPLA PGHGSPPFSLSKKDLMLLDD SLPLASDPLLTMSPEASKASS RRSSFSMEEGDVL

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9988	40356	A	10049	1	1651	GGVTAGARAPARGSVTAEEAA RAGRGSRGADGGREGRTGRA SLVARGSRPGAGGGHSLRAR HPNLRQVAGA/GGARAADRLT FRAREPAPAATMASRIGLRMQL MREQAQQEEQRERMQQAVVM HYMQQQQQQQQLGGPPTP AINTPVIHFQSPPPVPGEVLKVQS YLENPTS YHLQQSQHQKVREY LSETYGNKF AAAHISPAQALR NPHQPPPGCELDTCPPPLAT VLPISPMAMLHIGSNPERLEDD VIDNIMRLATMSLGYINPEMQM PNTVLLARLPLSSSHLNVYSSDP QVTASLVGVTSSSCPADLTQKR ELTDAESRALAKERQKKDNHN LIERRRRFNINDRIKELGMLIPK ANDLDVRWNKGITLKASVDYI RRMQKDLQKSRELEHNSRRLE MTNKQLWLRIQELMQARVHG LPTTSPSGMNAELAQQVVVKQ ELPSEEGPGEALMLGA/EGP/DP EPLPALHRQAPLPLTPQAPSPFH S/HWDFSHSL/SFGGRVDDWSP GLPRTPGAGAWLPQPVPQEGS GPHAPGRLTATAGL
9989	40357	A	10050	2	76	TPLAPPPKPVRRRLKSRR*IKAR S
9990	40358	A	10051	3	206	
9991	40359	A	10052	1	492	

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9992	40360	A	10053	2	2395	KQTELRSSGSRDVTGALLVAA AVASEAVGSLRVAEGGPNTLL QVLRISWAPWCNKATQTMEERK VKRRSPKSFSAHCTQVVNVQK KMSIPVSKS/TGFSNPASQVNFT SRPKVKKEVMK/VEKTKPQGLEE GQRHSSQLPIQHSFLTQDVSRCS RKMERGLLSLNDFFHSWK/TFK HFGMECS/VEQMEHVSSELQEK LARLNLLEYGELELPEDKRKT ASDS/SLDRLSLDCREMPAFRT FLKRHDKTIVTKMLSLPELLLY PSRRFEYLNLLYAVRLHTPAE HVDRGDLTTAIDQIKKYGYID QTLSEVNRYLIRVQDVAQLHCC DEEISFSLSVACRSVDSASPESL PEMQNSQATLALLNQNLHFNKI TRLYEHIHDLSLFLNDALLVSS RGTSHTPFERTSKTTYQFIASVA LHRLIENIPDSKYVKNAFILQG PKYKWICATEIEDDKFLWLSVL RNAIKSSMEKACGLVFTGQFMF DTMGMTNILNNQDTAQAALADG LMELSKEDSKCGKKIKDVEGN VIPTKCDPKTTFSLFMKERNVV EDNSWDTKSRLSKNDLNFEALI NLERILQKDSAEKRARVVRELL QSERKYVQILEIVRDVYVAPLK AALSSNRAILSAAANIQIIFCDILQ ILSLNRQFLDNLRLQEWGPA HCVGEIVTKFGSQLNTYTTFNN NYPVILKTIEKQWETFSERSSSS
9993	40361	A	10054	2	296	
9994	40362	A	10055	2	369	
9995	40363	B	10056	82	2483	
9996	40364	A	10057	2	3343	YDVVLDAIDTMQRVAWHIND MKRKHEHAVRLQEIQSLLTNW KGPDLTSYGELVLEGTFRIQRA KNERTLFLFDKLLITKKRDDT FTYKAHILCGNMLVEVIPKEP LSFSVFHYKNPKLQHTVQAKSQ QDKRLWVHLKRLILENHAAKI PAKAKQAILEMDAIHHPGFCYS PEGGTKALFGSKEGSAPYRLRR KSEPPSSRHVLTSETAQDQIQ KVSREEGSPQLSSARPSPAQRNS QPSSSTMISVLRAGG

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9997	40365	A	10058	32	483	LKGHADAVLAAGTEAVKCHLL LGRHLLRLMASSGIHHKIVN*R QYAKFSHG*IQKF**WQHRQQF RGKETEMASAVDLPVTLTETEA NFPPEYEFKFWKTVENNPQDFTG WVYLLQYVEQENHLMMAARKA FDRFFIHPYCYGYWKYADL
9998	40366	A	10059	1	1090	MRQKRKEEKELFHNDCEKKE KNSWERMRTGTTEKMASESET PTGAISQYKERMPSTHSPHIM DLSELRFPSKPEIALTEALRLA DED/WDKQLHALEQLASCYS GTRHTTSSFHCGHQGMWWHPE AWRC/LATAEPQREPGKSTISSH SSLWN*Q/LHSHKLQSVPLKV KNLRSGVSRAAVVCLSDLFTYL KKSMDQELDTTVKVLHKGAGE SNTFIREDVDKALRAMVNNVT PARAVVSLINGGQSHLHIAVRR CTAQLHSDVLEFMEPERILSAA KDMAERILPAAAKFAQDSSQET RYYGRKMLFFMMCHPNFEKM LEKYVPSKDLPLYIKDSVRNLQ KVCCKSLFYKQLYKQSLFLHP
9999	40367	A	10060	36	203	
10000	40368	A	10061	1	798	MKFQYKEDHPFEYRKKEGEKI RKKYPRDVPVIVEKAPKAR/RA *SGQEEVPSAL*PYCCLP/DGAG LGTCS/HAMPEPPTHSMGTCAA RASPTSTTPCSTAPSPIDRE/EQT TQGLRNASARRGTGRQLHLQ/S PVWDPLGEASWAPESGNVESI SSSGIVNIPISTLCLAQGFSRFVN APIDTLYLAALVGPWRTFMSSS GIVNTPIGTLYLAQGMVHYHKS PFPTCLVQMSKIESLPKEGAQ GVAAGLPSLAPTCTPPDPMSK LHNN
10001	40369	A	10062	164	605	ALLKQHLRTVHRSAPPIRGHCC VSSSWT*G/AGKLSLEHTEEPSD VPSHLLYRWSISSAITEVFQALA SSNPPRSQ*MSIPRRINESTRHSP GPSIEEVKECMQDDN*YLQGTS YAPAGSQSYAKLCFQVLKRN TCPPEKPNPASER

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10002	40370	A	10063	3	2480	RPITGAEIVAIHNSLPTKKSPGLD GFTAEFYQRYKEELVFPFLKLF QSIEKEGILPNSFYEASIIIPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHDQVGF PGMQGWFNIRKSINVIQHINRT KDKNHMISIDAFAKAFDKIQQ/R LHAKNS/RIN*VLM/ETYFKIIRA IYDKPIANIILNGQKLEAFPLKT GTRQGCPLSPLFNIVLEVLR AIRQEKEIKGQLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLIS NFSKVSGYKINVQKSQAFLVTN NRQTESQIMSELPFTIASKRIKY LGQLTRDVKDLFKENYKPLLK EIKEDTNKWKNI PCSWVGRINI VKMAILPKVIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRAHIA KSILSQKNKAGGITLPDFKLYY KATITKTAWYWYQNRDIDQW NRTEPSEITPHTYNCLIFDKPEK NKKWGDLSFNKWCWENWLA ICRKLKLDPLTPYTKINSRWIK DLNVRPKTIKLTLEENLGITQNI GMGKDFMSKTPKAMATKDKID KWDLIKLSFCTAKETTIRVNR QPTKWEKIFATYSSDKGLISRIY NELNQIYKKKTNNPIKKWAKD MNRHFSKEDIYAAKCHMKKCS SSLAIRESQIKTTMRYHILTPVR MAIHKSGNNRCWRGCGEIGTL LHCWWDCKLVQPLWKS V WRF
10003	40371	A	10064	317	582	STVCCFLRFIGGGFRHIPLSVD LWIHYIKILKETLDPGDPETNNT IRGYVEH*Y*NVFYDINNYSDV DNRAHES*AGSLTSIPLKK
10004	40372	A	10065	41	434	GDLQPTAALWEPLSGLAKAGA RSLSLQGGVGGEARARTRAAR GACGPAAAPGGHGLGGHALGA AGR/LLALGRLGTCSLPCLSLP PSPWAPVPPPEPR*VPPIHAGRP VPSATQRLRSAGAQRRTRGRL
10005	40373	A	10066	67	459	LRDCKYTHRHCSSSRFINTPIN TLCLAQGL*VHQSTLCI*LLWV GGLGGNFCVQYSVSN*SDGDV ENLCI*LRDCKCTNQHPVKTG FGSTNQDVGWGGQIKRIKAGLP EPASGNSLGSPTLWELCSLQ

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10006	40374	A	10067	2481	2882	IPQGNRYRVIARNAKTQRGGNLT LTKPS/GIGRRGENSSISSWQRQ QKGGKKTGSQRKRQRGRDKKL ERKRDHRHSQREGKKERKRQR RSQRERWK**RKNSVPIPLKAR VNFSLPTQGNLLDLNPLYPLK QLKK
10007	40375	B	10068	52	5199	
10008	40376	A	10069	1510	2454	
10009	40377	B	10070	97	3414	
10010	40378	A	10071	164	620	PPTGCGTGPIGCSGPGTGPVPVP VAPPPFQEGARTQPGSAGAIPG ARGLRRAETLVALGAVGPGLP TPPPPPPPAPQSQAPGGPEAQPF GSRVVCVLASCCAHRPRPAPSAP PAPPAPPESTVRPAPPTRGESS YSSISHAFTATNPFPGTA
10011	40379	A	10072	1	513	MATLAGEGRPAGWVPWISLLA VGVLIWKLWPAPPGGELQFA FVCFLGNNVYEAFAHWKRLN LLCRSEAAAMKK/HATRLWINLI SILHHQLGEIPADFFVDIVSQHN FLTSTLQVFSSACSIADVATLR KKAELFQAHLTKKFRWDFAE PEDCAPVVEELPEGIEMG
10012	40380	A	10073	1	1642	MDYIRTDLTAAAPSPRRLGPPP PGEQPPSGSGHVRPPGARPPHR GGGRGGGGDPAAAPPARGGGG GGKARPPGGGAAPCEPGCQR APMVSVSSERHPLYNRVKGTQI ANCALPCHNPFQSDERAFTVF WIGLWSVLCFVSTFATVSTFLID MERFKYPERPIIFLSACYLFVS GYLVRLVAGHEKVACSGGAPG AGGAGGAGGAAAGAGAAAGAG AGGPGGRGEYELGAVEQHVR YETTGPAICTVVFLLVYFGMA SSIWWVILSLTWFLAAGMKWG NEAIAGYQYFHAAWLVPSV KSIAVLALSSVDGDPVAGICYV GNQSLDNLRGFVLAPLVIYLFIG TMFLLAGFVSLFRIRSVIKQD GPTKTHKLEKLMIRLGLFTVLY TVPAVVVACLFEYQHNRP EATHNCPCLRDLPDQARRPD YAVFMLKYFMCLVVGITSGVW VWSGKTLESWRSCLTRCCWAS KGAAVGGGAGATAAGGGGGP GGGGGGPGGGGGPGGGGGSL YSDVS/TGLTWSRGTAASSVYP

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10013	40381	A	10074	3	475	HSSLNSVDKARALEADNGELE VNIRDWYQKQGPASRDYSHY YTTIQDLRDKILGATIENSRIVL QIDNARLAADDFRTKFETEHAL RMSVEADINGLRRVLDLTLAR IDLEMHIEGLKEELAYLKKNH EEISTLRGQVGGQVTV*VDSAP GTDL
10014	40382	A	10075	39	1323	NGMWSNWNPLIPQRWEEKFQS PSRHRGSSSRGVSLSSSGGYSGI LSGSNGLLAGNEKLTMHNLNN CLASYLDKVHALEAANSKLEF GLSVVWLDVTLARTDLEAQI KGLKEELAYLKKKHEEEINALR GQVGDQVHILSDRQSQYEIMA KQNWKDAEAWFTSWTEELNQ EVTGHIEQLQISRSEVTDLQCTL QGLEIELHSQSVKAPLEGTLA ETEACFGAQLVQIQALISSIEAQ LGDVRADGEWQONQEYQRLLE QEIATYRSLLEGQEDHYNNLST SKVQIPECTVSNVPVASVCLQT LEPHSLASNPGSSTYSVTFGQYI NLSVSPFLLLEATIAGAKKAAT GNNSTQFSPPAERQLCFTCPRT IPLTTASHAGSYGPKLVKYTSL RPLPMAAPTESNPALPSSRATA HRLLPAPGHFPSGL
10015	40383	B	10076	133	180	

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10016	40384	A	10077	1	2182	MSVDKAEELCGSLTLTWLQTFHV PSPCASPDLSGLAVAYVLNQ IDPSWFNEAWLQGISDPGNW KLKVSNLKMLVRLSLVEYSQDV LAHPVSEELPDVSLIGEFSDPA ELGKLLQLVLGCAISCEKKQDH IQRIMTLEESVQHVVMEAIQEL MTKDTVPDSLSPETYGNFDSQS RRYYFLSEEAEEGDELQQRCLD LERQLMLLSEKQSLAQENAGL RERMGRPEGEGTPGLTAKKLLL LQSLEQLQEENFRLESGREDE RLRCAELEREVAELQHRNQAL TSLAQEAQALKDEMDELQSS ERAGQLEATLTSCRRRLGELRE LRRQVRQLEERNAGHAERTQ LEDELRRAGSLRAQLEAQRRO VQELLGQRQEEAMKAELWFE CRNLEEKYESVTEKERLLAER DSLREANEELRCAQLQPRGLTQ ADPSLDPTSTPVDNLAAEILPAE LRETLRLSLLENKRLCRQEAA DRERQE/EKLQRHLEDANRAR HGLETQ/HLRLNQAAAYSELRA QVEDLQKALQEQQGKTEDAISI LLKRKLEEHQLKLEADLELQR KREYIEELPPTDSSA/RRIEEL QHNLQKKDADLRAMEERYRR YVDKARMVMQTMPEKQRPAA GAPPELHSLRTQLRERDVRIRH LEMDFEKSRSQREQEKLISA WYNNMGMALQQRAGE/EPAPA
10017	40385	A	10078	1	687	
10018	40386	A	10079	1	1104	
10019	40387	A	10080	1	677	MAAAGGGGGGAAAAAGRAYSF KVVLLEGCGVKTSVLRYCE NKFNDKHITTLQASFLTCKLNI GGKRVNLAIWDTAGQERFHAL GPIYYRDSNGAILVYDITDEDSF QKVKNVVKELRKMLGN/ETCL CIVGNKIDLEKERHVSIEAESY AESVGAHYHTSAKQNGKIEE LFLDLCKRMIETAQVDERAKG NGSSQPGTARRGVQIIDDEPQA QTSGGGCCSSG
10020	40388	A	10081	1	1467	
10021	40389	A	10082	2	244	
10022	40390	A	10083	1	257	
10023	40391	A	10084	1	558	
10024	40392	B	10085	41	618	
10025	40393	A	10086	1	591	

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10026	40394	A	10087	128	851	KMEKEKGNDDGIPDQENSLDFS EHFNQLELLETHGHLIPTGTQSL WVGNSDEDEEQDDKNEEWYR LQEKKMEKDPSRLLWAAEKN RLTIVRRLSEKATHVNTVRDE DEYTPLHRAAYSGHLDIVQELI AQGADVHAIVTDGWTPLHSA CKWNTRVASFLLQHDADINA QTKGLLTPHLAAAGNRDSKDT LELLLMNRVYKPKLKNLEET AFDIARRTSIYHYLFEIVEGCTN
10027	40395	A	10088	2	264	NKQPIWIPSRHLKPYHEPDAKE EIPGGS*GPTSCSHVETDAEDP NCHEQIILSNTATHLGTQEAIVI DGRKKPEESRTTSHICRCS
10028	40396	A	10089	2	461	
10029	40397	A	10090	2	749	
10030	40398	B	10091	1	1077	
10031	40399	A	10092	1	1114	MPQNSLEECALGLGKSLQEN VNNFPKTKLFQFLKLTNWILPKI TKFKPIEGAENVFTDGSSNGKA SYFGLKGKVFQTPYTAQKVE LVAVIEVLTAFDMPVMSISDST YVVHSTQLTENAQLRLHTDEQ LMTLFSQLQTAVR/CFAVMGIP ASRKTDNVPGYTIQTLATFFSM WNKHITGIPYNSQGGAIIVGRIN LSLKQRLQKQKEGNREYRTPQ MQLNLALLALIFLSLSKGQMLS AAEQHLQKPPAKTEAEQLIWW RDTKTRSWIEGKIITCGRGYAC VSPGQNZQPIWTPSRHLKPYHE PDAK/KRFREDPEDFPSCSHVKT DAEEDPNCHEQHPNTAIHLRS DQEAVTDGRRKPEESGTTSHNE
10032	40400	A	10093	239	783	RRAPGTAPDAGPELRS/LIHL GPACIFLRKGFAENRQPVQLRE AFREFDKDKDGYINCRDLGNC MRTMGYMPTEMLIELSQQIN MNLGGHVDFFDFVELMGPKLL AETADMIGVKELR/DAFREFTD NGDGEISTSELREAMRKLGLHQ VGHRIEIEIRDVDLNGDGRVD FEAPFPGSSN
10033	40401	A	10094	1	304	
10034	40402	A	10095	3	154	
10035	40403	B	10096	126	251	
10036	40404	B	10097	122	2916	

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10037	40405	A	10098	3	2433	LAELSSLSVRLRSHNSISHIAEG AFKGLRSLRVLDLDHNEISGTIE DTSGAFSLGDSLSKLTFLGKNIK SVAKRAFSGLEGLEHLNLGNG AIRSVQFADFVKMKNLKEHIS SDSFLCDCQLKWLPPWLGRL QAFVTATCAHPESLKGQSIFVSP PESFVCCDFLKPQIITQPETTMA MVGKDIRFTCSAASSSSPMTF AWKKDNEVLTNADMENFVHV HAQDGEVMEYTTILHLRQVTF GHEGRYQCVITNHFGSTYSHKA RLTVNVLPSTKTPHDIITIRTTT MARLECAATGHPNPQIAWQKD GGTDFFPAARERRMHVMPDDD VFFITDVKIDDAAGVYSCTAQNS AGSISANATLTVLETPSLVVPLE DRVVSGETVALQCKATGNPP PRITWFGDRPLSLTERHHLP DNQLLVQNVVAEDAGRYTCE MSNTLGTERAHSQSLVLPAAAG CRKDGTTVGIFTIAVVSSIVLTS LVWVCIIYQTRKKSEESVTNT DETVVPPDVPSYSSQGTLSDR QETVVRTEGGPQANGHIESNGK ASVTVKQSSAVTVSLGAGGGL QVFTGQVPGIRWGKLGEVEGG VCPDRDASHPEPDTHSVACRQP KLCAGSAYHKEPWKAMEKAE GTPGPHKMEHGGRVVCSDCNT EVDYCSRGQAFHPQVSRDSAQ PSAPNGPEPGSDQEHSPHHQC
10038	40406	A	10099	1	164	
10039	40407	A	10100	368	566	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
10040	40408	A	10101	3	1160	RDQRGYRDDRSPAREPGDVSA RTRSGGGGGRSATTAMPPVPVN GNLHQHDPQDLRHNGNVVVA GRPSCSRGPRRAIQKQPAGGR RSRGPAAGGLCLQPPDGGTC VPEEPPVPPMDWEALEKHLAG LQFREQEVNRNQ/QARTNSTSA QKNERESIRQKLALGSFFDDGP GIYTSCKSKGKPSLSSRLQSGM NLQICFVNDSGSDKSDAADS KTETSLDTPLSPMSKQSSSYSD RDTTNEESES LGWTWDFLYKG KRNLQAEAKMALAMAKPMAK MQVEVEKQNRKKSPVADLLPH MPHISECLMKRSLKPTDLRDLI MGQLQVIVNDFISQIKSLNEEW VQLLLAQDELHTEQDAMLVDIE DLTRHAESQQKHMAEKMPAK
10041	40409	A	10102	1	506	RGRPRTEPDPCCPRAAAGARPS GPG/QDLPRRLPGSPGAPGAG GGAGTAAGRKGPGLPPEEAAD GAWRLGEGWAAASEEPAPPGP HTSQRGASPPQPGWARAAGLS NQPTKDRIFGGSHKAA PQASAD SPTSLQCGAAGHCPKASRRALG DNPETEATSSLSPTEWLQ
10042	40410	A	10103	1	429	MGSRLNWMEVIEQCTYLHLVLI KCMFFWNRQHRGGIQEKAALK QRTPRIFHEKNTPCYLLVQE*H RSNAFGEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEEE EETLFSNM
10043	40411	A	10104	4	122	
10044	40412	A	10105	53	619	ILVWSIVPEGKILWGTKQQRD SRTQRLLLKSPWRAKQSVWEE/ ERKKKNKEEKEEKEKEKEK EKEKEKKRKKRKKKKKKKK KKKKKKKKKKKKKKEEEEEE EDEEEEEEEEEKKKEEKEKVK EKKKEKK/QEEKEEEN/EEEEK EEEEKEKSSSKYSLLDSVPTL LISLVWILNTPELLQPA
10045	40413	A	10106	2821	4680	
10046	40414	A	10107	18	1535	
10047	40415	A	10108	3	1494	
10048	40416	A	10109	3	617	
10049	40417	A	10110	3	1142	
10050	40418	B	10111	1	2151	
10051	40419	B	10112	1	1461	
10052	40420	A	10113	1	1248	
10053	40421	A	10114	2	1624	

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10054	40422	A	10115	1	1416	
10055	40423	A	10116	1	2262	
10056	40424	A	10117	1	1791	
10057	40425	B	10118	1	1497	
10058	40426	B	10119	1	1599	
10059	40427	A	10120	1	1722	
10060	40428	A	10121	1	3168	
10061	40429	A	10122	1	1083	
10062	40430	A	10123	1	589	MGAIYDKPTANIILNGQKI.EAF PLKTGIRQGCP.LS.LLFNIVLEV LARAIRQEKEIKVIQVGVKEEVK LSLFADDMMIVYLEDPIHAPNLL KLISNFSKVSQYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RKYLGIQLTRDVKDLFKENYK PLLKEKEDTNKWKNI PCSWVG RINIVKMAILPKPYVES
10063	40431	A	10124	1	1566	
10064	40432	B	10125	1	2406	
10065	40433	A	10126	1	2478	
10066	40434	B	10127	69	1259	
10067	40435	B	10128	225	997	
10068	40436	A	10129	2	1124	
10069	40437	A	10130	1	2058	
10070	40438	A	10131	258	823	TLMQKSSAKYWQTESSTSKSL STMIKWASSLGCKAGSIYANQ* M*SSI/YTNNRQTESQIMSELPFT IASKRIKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNI PCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTFFTELEKTTLKFI RNQ KRACIAKSILSQT KLEASRYLTS NYTTRLQ
10071	40439	A	10132	1	1512	
10072	40440	A	10133	1	992	
10073	40441	B	10134	1	2019	
10074	40442	A	10135	1	1203	
10075	40443	A	10136	1	1578	
10076	40444	A	10137	1	2956	
10077	40445	A	10138	1	1983	
10078	40446	A	10139	1	3156	
10079	40447	A	10140	1	3325	
10080	40448	A	10141	1	1870	
10081	40449	A	10142	1	1446	
10082	40450	A	10143	1	2310	
10083	40451	A	10144	1	1293	
10084	40452	A	10145	1	1038	
10085	40453	A	10146	1	1713	
10086	40454	A	10147	1	2271	
10087	40455	A	10148	1	3654	
10088	40456	A	10149	1090	1647	

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10089	40457	B	10150	1	1248	
10090	40458	A	10151	1	1884	
10091	40459	A	10152	1	1140	
10092	40460	B	10153	1	1545	
10093	40461	A	10154	1	3300	
10094	40462	A	10155	1	1824	
10095	40463	A	10156	1	1023	
10096	40464	A	10157	1	2169	
10097	40465	A	10158	1	2661	
10098	40466	A	10159	1	1104	
10099	40467	A	10160	1	1668	
10100	40468	A	10161	1	1945	
10101	40469	A	10162	1	3303	
10102	40470	A	10163	1	1382	
10103	40471	A	10164	1	399	MPPVDASRDRLRLNPLSSVKAK PNEYLLLVQVLFLNRNTKEGLI RLARYPDLLQQTESQIMSELP FTIASKRIKYPGIQLTKDVEDLF KENYKPLLSKIKEDANKWKNP CSWIGRINIVKMAVLPKKKIWW
10104	40472	A	10165	1	2218	
10105	40473	B	10166	1	2562	
10106	40474	A	10167	1	3169	

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10107	40475	A	10168	1	2105	MKAIEIKMFETNENKDDTTYQN LWDAFKAVCRGKFIALNAHKR KQERSKIDNLTSQLKELEKQEQ THSKASRRQEITKIRAELEKEIET QKTLQKINESRSWFFERINKIDR PLARLIKKKREKNQIDTIKNDK WDITTDPTETITIREYYKHLA NKLENLEEMDKFLDTYTLPRLN QEEVESLNRPTGSEIVAIINSLP TKKSPGPDGFTAEFYQRYKEEL VPFLLLKLFQSIGKEGILPNSFYE ASIIIPKPGRDTTKKANFRPISL MNIDAKILNKILAKRIQQHIKKL IIHHDQHINKAKDKNHIIISIDAE KAFDKIQQFFMLKTLNKLIDG TYFKIIRAIYDKPTANIIILNGQKL EAFPLKTGTGRCPLSPLLNFIV LEVLAIRAIQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIVSAQ NLLKLISNFSKVSQYKINVQKS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKVE NYKPLLEKEIEDTNKWNIPCS WVGRINIVKMAILPKGFCRFRN HHQTGFSPAGANQRGLAATLS GPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINAAGTT GFPTGKRAVSATQLMDFADFG TTIKQDFRLLGQTSVDRLLQLS QQQAVKGNQLLPVSLVVRKTT LAPNTQTASPRALADSLMQLA RQVSRLESGQ
10108	40476	A	10169	1	1689	
10109	40477	A	10170	425	1333	
10110	40478	A	10171	1	2274	
10111	40479	A	10172	1	3828	
10112	40480	A	10173	3	3130	
10113	40481	A	10174	1	960	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 50,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, V = possible nucleotide insertion)
10114	40482	A	10175	746	2470	TLMQKSSIKYWQNESSTSKSL STMIKWASSLGGCAWPNIRKSI KVIQHINRAKDKNHMIIISDAEK AFDKIQQPFMLKTLNKLIGDGT YFKIIRAIYDKPTANILNGQKLE AFPLKTGTRQGCLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDIMIVYLENPVSAQN LLKLIRNFSKVSGYKINVQKSK AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLLKEN YKPLLKEIKEDTNKWKNIPCS WVGRINIVKMAILPKNWKKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHTYNYLIFDKPEKNKQWGKD SLFNKWCWENWLAICRKLKLD PFLTPYTKINSKWKDLNVRPK TIKLEENLGITIGDIGMGKDFM SKTPKAMATKAKIDKWDLIK KSFCTAKEATIRVNRQPTKWEK IFATYSSDKGLISRIYNELKQIY KKKTNNPIKKWKDMNRHFA KEDIYA AKKHKMKCSPSLAIRE MQIKTTMRYHLTPVRMAIIKKS
10115	40483	A	10176	1	3492	
10116	40484	A	10177	1	3139	
10117	40485	A	10178	637	2760	
10118	40486	A	10179	2	3932	
10119	40487	A	10180	1	1865	
10120	40488	A	10181	1	5754	
10121	40489	A	10182	959	1615	
10122	40490	A	10183	701	6973	
10123	40491	A	10184	3	3319	
10124	40492	A	10185	1	3296	
10125	40493	A	10186	1	2296	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
10126	40494	A	10187	1614	2615	TLMQKSSIKYWQTESSSTSKSL STMIKWASSLGMQGWFNICKSI NVIQHINRTKGKGNHMIISDAEK AFDKIQQPFLUKTLNKLIGDGT YLKIIRAIYDKPIANIILNGQKLT FEKFPLKIGTRQGCPLSPLLFNI VLEVLRARIRQEKEIKIGIQLAKE EVKLSLFADDMIVYLENPVSV QNLLKLISNFSKVSGYKIYKIDV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQTRDVKDL FKVENHKPLLKEIKEDTNKWKNI IP/CSWVGGRINLVKMAIL/PKVI YRFNAIPIKL/PMTFFTELEKNYF KVMHEPKKEPVLPSQS
10127	40495	A	10188	141	401	
10128	40496	A	10189	1	156	MQFPKTKTKKKEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEGEE EKEEII
10129	40497	A	10190	1	1446	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
10130	40498	A	10191	272	2722	ETSCLPLVRVHYAEAITGRCTAP EDEGSLGQKPPARRSNNRTEGA WGKRQLMSSP/STEPVCLTIEG QEIDFLDGTGAASFVLSICPGRL SSTSVTIQGILQPPVTRYFSHLL SCNWETLLFSHAFLLMPERPTG LLGRDILAKAGAIYMNMGNKL PICCPLEEINPEVWALEGQFG RAKNAHPVQIRLKDPPTFFPYQR QY/PLRPEAHKGLQNIVKHLKA QGLVRKCSSPCNTPILEVQRPL VQDLRLINEAVISLYPVVNPYPT LLSQIPEEAEWFTVLDLKDAFF CVPLHSDSQFLFAFEDPTNHTS QLTWMVLPQGFDRDSPHLFGQA LAKDLGHFSSPGTLVLQYVDDL LLATS*EALCQQA TLDDLNFLA NQGYKVSMSKAQLCLQQVKY LGLILAKGTRALSKE*IQPILAY PRPKTLKQLREFLGITSCRLWI PGYSETARPLYTLIKDTQRANT HLVEWESEAETAFTLKQALV QAPGLSLPTQQNFSLYVTERAG IALGLVTQTRGTPQVAHLSK ETDVVAKGWPHCLRVVAAVA VLVSEAIKIQGKDLIVWTTHEV NGILGAKGSLWSDNCLLRYQ ALLLEGPVLIQICTCMALNPATF LPEDGEPIKHDCQIIIVQTYAAR DDLLEVPLTNPDNLNYTDGSSF VENGI/RKVSVDVTILESKPLPPGT SAQLAELVALTWALELGKGR

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10131	40499	A	10192	1	2529	MTQEPSAIMREVPEMVNLIKGT GDIHNTEIQNDNGKVGMTKCM AKPKDELRLNLKILSESLESAQR QGVSKQEKVLQCRRAQDLQPT MPEPPIPSMGSCAARASPTSATP CSRAPSPIDHPTAAKCRMRMAR YWQAAPPAALVLDQLGEASW APESANLVGKWRTFVSSSGTA NAPISTLSKQTTGLYQSAGCGW GQNLGAKYRAPVGQLKATSTA ARLKTRVSGFLGKGLTTPDSS ELGPLDPTDHTSQLTWTVLPQG FRDSPHLFGQALAQDLGHFSSP GTLILQYVDDLLLATSEALCQ KATLDLLNFLANQGYKVSRLK AQLCLQSEIARPLYTLIKETQR ANTHLVVSEPEAVI/AFETLKQA LVHAPALSLPIGQNFSLYITERA GIALGDLTQTCGTPQPVAYLS KEIDVVAKGWPHCLRVVAAVA ILVSEAIKIMQKGDLTWTTTHD VNGILGAKGSLWLSDNHLLRY QALLLEGLVLQICTCVALTAT FLPEDGEPIDHCQII/VQTYAT RDDLLEVLPTNPDNLNYTDGSS VVENGIRRAGYAIIVSDVTILESK PLVPGTSAQLAELVALTRALEL GKGKIIINVYTDISKYAYLILHAH AAIWKEWEFLTSGNPHGCHRE VMELLHVMVQETKEVGVLYHYS HQNGKERGEQQRKQLAEASAA FLWGRALDLQPTMPEPPIPSMG
10132	40500	A	10193	1	197	
10133	40501	A	10194	1	259	
10134	40502	A	10195	1	295	
10135	40503	A	10196	1	439	
10136	40504	A	10197	1268	1420	
10137	40505	A	10198	1	389	
10138	40506	C	10199	1	298	
10139	40507	A	10200	2	90	
10140	40508	A	10201	3	1252	
10141	40509	A	10202	2	82	WMKLETSKLT*EQTKHKCMFSLISGS
10142	40510	A	10203	149	244	
10143	40511	A	10204	485	668	
10144	40512	B	10205	1	598	
10145	40513	C	10206	422	784	

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10146	40514	A	10207	3	899	IYNHLIFDKPKDNKQWGWK\DSL FNKWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEENLGNTIQDIGMGKDFMTK TPEAMATKAKIDKWDLIQLKSF CTANETVIRVNRQPTEWEKIFAI IYPSDKGLISKIYKELYEKKTN LIKKWAKDMNRHFSKEDFYEA KKHEKSSLLQGQVTKGGCCLP MNL LGTYRSEENPSEYQRRQLI KTLRVCKPSSSYFLTSDFLDTPS FSCEPTQTNELQGCSLRFRVAT AAGPVQVRGARLPFAAPERGL AQIPRQMDSKI
10147	40515	A	10208	3	352	APGRRRLCQPAAGPGAWPGS AVPGSVSPADARSPISGPSRAL RRHLRPSAAGPGLEIPHTDPH LPGVDYKEGRP/PSGKAGRGGP/ PGKGSASGARALGVAAAA TPRASTL
10148	40516	A	10209	1	510	
10149	40517	A	10210	73	327	
10150	40518	A	10211	1	957	MWSTCKLHGQAKYILCAAE SWGAAASCLHGSTMSTTVVSMA CVGAWPLMGGQDKP/FLSARP STVVPRGGHVAE/RCHYRRGFN NFMLYK/EDRSHVPIFHGRIFQE S/FIMGPVTPAHAGTYRC/RGSR PHSLTGWSAPSNP/LVIMVTGN HRKP/SLLAHPGPLLKSGETVI/L QC/WLSA/PSDPLDIVIT/GWENP CLSHVL*S*SHS*ELPADDGEKH GQMQRPEKPTG*NPSSWSPSTE/ PSSKSGICR/HLHVLIGTSVVI FI/LLFFLLYRWCSNKK\DSDE QDPQEVTYAQL/NHCVFIQRKIS RPSQR/KTPLTDTSVYELPNA
10151	40519	A	10212	351	637	AWIGDMGLDWRVGLRVEISA WSGDMGLEWRYGL/REGMFN DTLRLIGEHHDGVSKANFSISR MKQDLAGTYRCYGSVTHSPYQ LSAPSDPLDIVII
10152	40520	A	10213	1	1314	
10153	40521	A	10214	1	1008	

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10154	40522	A	10215	3	1080	GQDKPLL SAWPSLVVPLGHVIL RCHSYLGFNNFSLYKEGVHRRKP SLLAHIPGRLVKSEETVILQCWS DVRFEHFLHREGKFKDTLHLI GEHHDGVSKANFSIGPMMQDL AGTYRCYGSVTHSPYQLSAPSD PLDIVITGLYEKPSLSAQPGPTV LAGESVTLSCSSRSSYDMYHLS REGEAHERRFSAAGPKVNGTTFQ ADFPGLPATHGGTYRCFGSFRD SPYEWSSNDPLLVSVTGNSTRY LHALIGTSVVIIPFAILLFLLHR WCANKNAAVMDQEPAGNRT VNSDSDDEQDHQVSYA*L.DH CVFTQREITRPSERPKTPPTDTS MYIELPNAEPRSKVVFPCRAPQ
10155	40523	A	10216	3	1379	
10156	40524	A	10217	352	1825	
10157	40525	A	10218	1	1497	MGLEWRYGPGGADMGLEWRY GPGVEMVWWSGDMGLEVEIR AWSGDMGLEWRYEPGDGDMG LEWRYGPGGGQDKPLLSTWPS LVVPPEHVTLRCHSNLGFNNFS LYKDDGVVPPELYNRIFWKSLF MGPVTPSHTGTYYRCRGSHTHSP SGGSAPSNPLVIVVTGFRRKPSL LAHPGPKVKSEETVILQCWSDV MFEHFLHREGTFNHTLRLIGE HIDGVSKGNFSIGRMTQDLAGT YRCYGSVTHSPYQLSAPSDPLD IVITGLYEKPSLSAQPGPTVLG ESVTLSCSSRSSYDMYHLSREG EAHERRLPAGPKVNRTFQADFP LDPATHGGTYRCFGSFRDSPYE WSKSSDPLLVSVTGNSSNSWPS PTEPSETGNPRHLHVLIIGTSVV KLPFTILLFLLHRCWCSNKKNA SVMDQGPAGNRTVNREDSDEQ DHQVSYA*L.DHCVFTQRKITP PSQRPKTPPTDSSMYIELPNAES RSKAVFCPRAPQSGLEGIF
10158	40526	B	10219	114	1944	

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10159	40527	A	10220	20	1138	AGARPPVCTGSTMSLMVIMAC VGFFLLQGAWPQEGVHRKPSF LALPGHLVKSEETVILQCWSDV MFEHLLHREGKFNNLHLIGE HHDGVSKANFSIGPMMPVLAG TYRCYGSVPSPYQLSAPSDPL DMVHGLYEKPSLSAQPGPTVQ AGENVTLSCSSRSSYDMYHLR EGEAHERRLPAVRSINGTFQAD FPLGPATHGGTYRCFGSFRDAP YEWSNSSDPLLVSVTGNPSNSW PSPTEPSSKTGNPRHLHLVIGTS VVKIPFTILLFFLLHRWCSDKKN AAVMDQEPAGNRTNVNSEDSE QDHQEVSYA*L DHCVFTQRKIT RPSERPKTPPTDSMYIELPNAE PRSKVVECPAPQSGLEGIF
10160	40528	A	10221	1	1334	MSLMVVSMAVCVGLFLVQRAGP HMGQDQKPFSLAWPSAVVPRG GHVTLRCHYRHRFNFMPLYKE DRIHIPHFHGRIFQESFNMSPVTT AHAGNYTCRGSHPHSPTGWSA PSNPVVMVTGNHRKPSLLAHP GPLVKSGERVILQCWSDIMFEH FFLHKEGISKDPSRLVGQIHDG VSKANFSIGPMMQDLAGTYRC YGSVTHSPYQLSAPSDPLDIVIT GLYEKPSLSAQPGPTVLAGEV TLSCSSRSSYDMYHLRREGEAH ERRFSAGPKVNGTFQADFPLGP ATHGGTYRCFGSFRDSPYEWSN SSDPLLVSVTGNPSNSWPSPTEP SSETGNPRHLHLVIGTSVVHILFI LLLFFLLHRWCNNKNAVM DQESAGNRTANSEDSDEQDPQ EVTYQLNHCVFTQRKITRPSQ RPKTPPTDIIVYTELPNAESRSK
10161	40529	A	10222	50	492	RARHRVTRPSIRKHSGHIRRLC LTCSSGVFLQGLRAGSRGTGPG LRTGWRSLSPAPRRRLHTPSAS SP*CSQ*RGPSAGTAAGARRRW RCRGQLRHPAGTSPPGRRWTG TACGPPAAPAPWHSSWSCPHS GAGPPWSPACRTASL

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10162	40530	A	10223	3	3159	QAEFAAASTTPALGSDGVRVT MDSALTARDRVGVQDFVLLN FTSEAAFIENLRFRFENLIYTYI GPVLVSVNPNYRDLQIYSRQHME RYRGVSFYEVPPHLFAVADTV YRALRTERRDQAVMISGESGA GKTEATKLLQFYAETCPAPQR GGAVDRLLQSNPVLEAFGNA KTLRNDNSSRFKYMVDVQDFD KGAPVGGHILSYLLEKSRVVHQ NHGERNFHIFYQLLEGGEETL RRLGLERNPQSYLYLVK
10163	40531	A	10224	1	2810	MLNGCAHAHPIFPTRILSECPRG MLRAGFHLLNRREALPPSRSHIS AAVLAPGALLSWGPDHPLELY GLHSHQDPPTYEGVKGAPVG GHILSYLLEKSRVVHQNHGERN FHIFYQLLEGGEETLRLGLER NPQSYLYLVKGQCAKVSSINDK SDWKVVVKALTVIDFTEDEVE DLLSIVASVLHLGNIHFAANES NAQVTTENQVKYVLRLLSVE GSTLREALTHRKIIAKGEELLSP LNLEQAA YARDA
10164	40532	A	10225	1	416	FRGVARQLRTSAMTMPVNGAH KDADLWSSHDKMLAQPLKDS VEVYNIKKESNRQRVGLELIAS ENFASRAVLEALGSLNNKYSE GYPGQGSPANFAVYTALVEPH GRIMGLDLPDGGHLTHGFMTD KKKISATSI
10165	40533	A	10226	135	840	GSPANF/AVYTALVETHGCMIG LDLPDGGHLTHGFMTDKKKIS ATSIFFESMPYKGGPHNHTIAG VAVALKQAMTLEFEVYQHVV VANCRALEALTELGYQTVTG CSDKHLILVDLHSIKGTDGRRRA EKVLEACSIACNKNTCPDDRNT LRPSGLRLGNPALTSGLLEKQ FQKVAFHFIHRGIELTLQIQSNAG IRATLKEFKERLAGHKYQGC QALQEEVESFTLPLPLPDF

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
10166	40534	A	10227	2	1355	QLRTSAMTMPVNGAHKADADL WSSHDKMLAQPLKSDSDEVYNN IHKESNRQRVGLLEIASENFAS RAVLEALGSLNNKYSEGYPG QRYYYGGTEFIDELETLCQKRAL QAYKLDPPQCGVNVQPYSGSP ANFAVYTALVEPHGRIMGLDLP DGGHLTRGLMTDKKISATSIF F*SMPLYKANPETGYINYGGLEE NARLFHPKLIIAGTSCYSRNLEY ARLRKIADENGAYLMADMAHI SGLVAAGVVPSPFEHCHVVTIT THKTLRGCRAGMIFYRKGVAV ALKQAMTLEFKVYQHQQVAN CRALSEALTELGKIVTGGSDN HLILVDLRSGKTGGRGAEKVL EACSIACNKNKTCGDRSALRPS GLRLGTALTSGLLLEKDFQKV AHFIHRGIELTLQIQSDTGV RAT LKEFKERLAGDKYQAADVQALR EEVESFASLFLPLGPDF
10167	40535	A	10228	2	243	GTACNPAWPPGLAPHLTHYA DLLPGSPFHVALPPESELWETP DVSLITGPRLGQTPVTEAVSGR RGIAIAYEDEGSG
10168	40536	A	10229	1	1194	MESMFSSPAEALQRETGVPL LTPLPDLGYYELERVAGFVRD LGCERVALQFPDQLLGDVAV AARLEETGSKMFILGDTAYGS CCVDVLGAEQAGAAQLIHFGP ACLSPPARPLPVAFV/LSSFTCG LGALCQGL*GPEPRPQSACGAA GEPACAHALDTGKTQDEGAR AGRLRARRRYLVERARDARV GLLAGTLGVAQHREALAHLRN LTQAAGKRSYVLAIGRPTPAK LANFPEVDVVFLLACPLGALAP QLSGSFQPI LAPCELEAACNPA WPPGLAPHLTHYADLLPGSPF HVALPPESELWETPDVSLITGD LRPPPAWKSSNDHGSALTPRP QLELAESSPAASFSSRSWQGL EPRLGQTPVTEAVSGRRGIAIA
10169	40537	A	10230	35	429	KEKRYLVYLGCCLPEK*ESV* TNPVQPIELSAMMAYPVAALSP HVA/RLNT*MTNVTEKLSF*S*L T*I*V*PHVFSGYCTGQCRSS*A SSSSSSSSSSSSSSSSSSSSSS SSASDK*WAEASPRVR

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10170	40538	A	10231	73	393	RTQAPKLSQGGPRCIPPPKLCLE MESMFSSPAEAAALQRETGVPG LLTPLPDLGRSVALQFPDQLLG DAVAVAARLEETTGSKMFLG\
10171	40539	B	10232	191	367	DTAYGSCCVDLGAEQAGAQAQ
10172	40540	A	10233	131	1681	RTQAPKLSQGGPRCIPPPKLCLE MESMFSSPAEAAALQRETGVPG LLTPLPDLGVYELERVAGFVR DLGGERVALQFPDQLLGDAVA VAARLEETTGSKMFL/LGVDT AYGSCCVDLGAEQAGAQAALI HFGPACLSPPARPLPVAFVLSST FCGLGTLCDLWGPKPRPQSAC GAA\GEPACAHAEALATLLRP RYLDLLVSSPAFPQPVGSLSEP MPLERFGRRLPAPGRRIIEYG AFYVGGSKASDPDLPDLSRL LLGWAPGQPFSSCCPDITGKTQD EGARAGGLRARRRYLVERARD ARVVGLLAGTLGVAQHREAL AHLRNLI\QAAG\KCSYVLAAG RPTAKLANFPEVDVFLVLAAC LGALAPQLSGSFFQIPAPCELE AACNPWAPPFG/LVWPHLTH/Y IADLLPGSPFHVALPPPESELWE TPDVSLITGDLRPPPAWKSSND HGSLALTTPRQLEAESSPAASF LSSRSWQGLEPRLGQTPVTEAV SGRRGIAIAYEDEGSG
10173	40541	A	10234	3	605	AAAREAAAGRDMLAADLRCSLF ASALQSYKRDVSLRPPFASAYR GDCKDFEALLADASKLPNLKEL LQSSGDNQTPGDLVSLDFYP QKVLTNPQVQ/WECRSFEKDSK S*LGLLTRFLHRTSCLKLS/SD PANAKFYETKGERDLIYAFHGS RLENFHSIIHNLHCHLNKTSLF GEGTYLTSDLALIYSPHGHG WQH
10174	40542	A	10235	197	895	LGLLTRFLHRTSCLKLS/SDP ANAKFYETKGERDLIYAFHGS LENFHSIIHNLHCHLNKTSLFG EGTYLTSDLALIYSPHGHGW QHSLLGPILSCVAVCEVIDHPD VKCQTKKKDSKEIDRRRARIKH SEGGDIPPKYFVVTNNQLLRVK YLLVYSQKPPKRASSQLSWFSS HWFTVMISLYLLLLLIVFCGLL ALQDRGLPQVCPQIPCGWRPPS EGSQVFETQPG

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10175	40543	B	10236	1	1059	
10176	40544	B	10237	226	522	
10177	40545	A	10238	159	306	LGSGNLP*EINPLSSCSLFREEDP PTTSGPQTNPQKEHLTNFKSAA ED
10178	40546	B	10239	101	397	
10179	40547	A	10240	2	253	LQEFGRKDPPTTSGPQTDQAR EHLTNFKSSA/CQIPWNSGPRLS E*LLPRSSRLSS*RLT/RAQSPW KPTGQSQMLWVTLTVEGT
10180	40548	B	10241	1	409	
10181	40549	C	10242	1	462	
10182	40550	A	10243	1	861	
10183	40551	C	10244	1	140	
10184	40552	B	10245	1	1773	
10185	40553	B	10246	1	320	
10186	40554	C	10247	1	420	
10187	40555	A	10248	273	485	LGSGDLPWGINPLSSCSLLREK DPLTISGPQTHQPKHEHLTNFKSG PTENRTVQLTWQPLPEPELEW PKAL
10188	40556	A	10249	508	558	
10189	40557	B	10250	76	358	
10190	40558	C	10251	83	414	
10191	40559	B	10252	1	1111	
10192	40560	C	10253	1	411	
10193	40561	B	10254	1	1054	
10194	40562	B	10255	57	229	
10195	40563	B	10256	1	222	
10196	40564	A	10257	230	1272	LLCSSACKCLMLGLHFVIVGNI CATLKEKYSSMLHLDVTMKKN GEKRTLQKRKKGMPPHPAYE DLNIAAITLPANVVLHQPSGFRT SGQLDPVWWSLDTDAHEIWCQ DPGLSGGDFPWEITPLSSYSLLH EKDPPTTSGPQTDQPKKHLTNF KSKTKETGFIHGPKTPAPVTDW EGSLPLVFNHCRDTSLLIHPCFK GVRPRRDACLGSPPLAASPAFL EKGQDLINLAFKVYNNRKKLQ FLASTVRQTAATSPAHKNFQMP EPQRPVGPPEPPPTGACYMCRK SGHIWTRNAGSPGFLLSRVPSV WDPTENRTVQLTWQPLPEPELE WPKALCLTDSFPDLLGLAA

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10197	40565	A	10258	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSKIDSLILCLKKKIM NRHFSKEDIYAACKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKSGNNRRCRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DLADPAIPLGLIYPKDYKSCCYK DTCTRMFIALFTIAKTWNQP
10198	40566	A	10259	1	1947	MNIDAKILNKILANRIQQHIKLL IHHDQVGFIPGRQGWFNCKSIN VIQHINRAKDKNHHIISIDA EKA FDKIQLFMLKTLNKLIDGT Y FKIIRAIYDKPTANILNGKKLEA FPLKTGTRQGCPLSPLLFNIVLE VLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLIISNFSKVSQYKINVQK SQ AFLYTNNRQTESQIMSELP FTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLEKEIKEDANKWK NIPCSW VGRINIVKMAILPKVIYRF NAIPI KLPMFTFFTELEKTTLKFI WNQK RAHITKAILSQKNKARGITL PDF KLYYKATVTKTAWYWYQ NRD IDQWNRTQPSITPHIYNYL IFD KPDKNKQWKGKSLFNKWC WE NWLAIKRLKLDPLTPYTKIN SRWIKDLNVRPKTTKLEEN LG ITIQDIGMGMDFMSTPKAM AT KDKIDKWDLIKLSFCTAKET T IRVNRQPTKWEKIFTTYS SDKG LISRIYNELKQIYKKKTNN PIKK WAKDMNRHFSKEDIYAACK H MKKCSPLAIREMQIKTTM RYH LTPVRMAIIKSGNNRCWR GC GEIGTLLHCWWINWMKKT WH IYTMYYASIKKNEFMSFAG A* MKLETH
10199	40567	A	10260	1	347	TNKIDRPLARLIKKEKKQID AIKNDKGDITDPTETQT TKEY YKHLAYANKLENLEEMDK FFDT YTLPRLNQEEVSLNRPIAG SEI EAIINSLPT/KKSPGPDG FTAKFY QRE

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10200	40568	A	10261	31	809	KPRLNYYVKNAAEASGADAINW KKGY/LVMEDEMNEMKREGKF REKRIKRNEQSLQEWDYVCRP TLHLIDVPETLNAHKRQERSK TDLTSLKLEKQEQTHSKAS RRQEITKIRAELEIETKTLQKI NESRSWFFERINKIDRLARLIK KKREKNQIDAINDKGDITSDP TEIQTITREYYKHLIYANKLENL EEMDKFLDTYTLPRLNQEEVES LNRPIITGSEIVAIINSLPTKKSPG PDGSTAEFYQRYKEEL
10201	40569	A	10262	209	3816	QGRPTFRFRKYREHHKDTFREE QLQDT*SSDSPKPK*KKC*GQ PERKVKLPTKGSPD*KRISRQ/ KTLQARRQSWFFKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTIEQITIREYYKHLIYANK LENLEEMDKFLDTYTLPRLNQEE VESVNRPIITGSEIAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLLLKQPIEKEGILPNSFYEASII LIPKPGRDTTKGNFRISLMNI DAKIL
10202	40570	B	10263	1	2265	
10203	40571	A	10264	1	2832	
10204	40572	A	10265	1	2757	

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10205	40573	A	10266	1	2114	MKEKMLRAAREKGRVTHKGK PIRLTADLSAETPQARREWGPIF NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTTRPVLK ELLKEALNMERNWYQPLQKH AKNMPNSIILPKGRDITTKEN FRPISLMNIDAKILNKILANRIQ QHKKLIHHDQVGFIPGMQGW NIHKSINVIQHINRTIDKNHMIIS IDAFAFKIQQLFMLKTLNKL GIDGTYLKIRIKYLGQLTREV DLFKENYKPLLNEIKEDTNKW KNIPCSWGRINIMKMAILPKVI YRFNAISNKLPMFTFTELEKTTL NFIWNQKRARIKSIKSNKA GGITLPDFKQYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWGDLSF NKWCWENWLAVCRKLKLDPP LTPYTKINSRWIKDLNVRPKTIK TLEEILGITQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLKS CTAKETTIRVNRQPTKWEKIFA TYSSDKGLIFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AACKYMKKCSPLAIREMQIKT TMRVHLTPVRMAIKKSGNNR QTESQIMSELPITIAKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCSWGRINIVK/T WPYCPSQMYMSPTWQPKTLQ LWRQPKYPWKGTHRRKK
10206	40574	A	10267	1	2952	MLLNQGRKLPVFAEETLKFK GTSNKPQTLEQISTIAAQKEAT VMVPGSNQEIPSGAYAIRALGF KHKTGRLEFQTLNLYLQEFLETP QWHLECOQERTVHSPGKAAEA REPSVIDRHLEQESSNWHLVGA ALGQSFQRKEQAIFAVLQPLL VIPRQTGSGVDLQKTPDLQQR GLIVRRKTNKQKGIHVNSTTRE QNWTENEFDKLTGGFKRWVI TNSSELKEHVLTCQCKEDKNLEK SAIKLELRINKLIQN
10207	40575	A	10268	1	1797	

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10208	40576	A	10269	I	1751	MIISIDAEKAFDKIQPFMLKTL NKLIGDGYFKIIRANYDKPTA NIILNGQKLEALPLKNGTRQGC PLSPLLFNTVLEVLARAIRQEKE IKGIQLGNVEVKLSLFADDMIV YLENPIVSAQNLLKLISKFSKVS GYKINVQKSQAFLYTNNRQTES QIMSELPFTIASKRIKYLGIQLTR DVKDLFKENYKPLLKEIKEDTN KWKNIPCSWVGRINIMKMAILP KVIYRFNAIPIKLPMPFFTELEK TTLKFIWNQKRARIKSILSQK NKAGGITPPDFKLYYKATVTKT AWCWYQNRDIDQWNRTEPSEI TPHIYNYLIFDKPEKDKQWGKD SLFNKRCWENWLAICRKLKLD PFLTPYTKINSRWIKDLKVRPKT IKTLQENLGFTIQDIGMGKDFM SKTPTAMGTDKIDKWDLIK KSFCTAKETTIRVNRQPTKWEK IFTTYSSDNLISRIYNELKQIYK KKTNNPIKQWAKDMNRHFSIE DIYAAKHKMKCSSSLAIREM QIKTTMRYHLTPVRMAIKKSG NNRNHLDFKHILGICYL/D*KI YQP*LHLVSRNRKPEKLSPKQA
10209	40577	A	10270	I	4729	
10210	40578	A	10271	I	1428	

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10211	40579	A	10272	1	2718	MALFRVGMITRRLLGHANKFTR DLLVKKLLLYEFVVEIIPGLRTK TTLVGPLETGYTSSDSVNSPHF MLDIALSHNVKSTQLLLRPWR NIDCSRNHKNAKKEEQMGDDE INRQQECSSPAMEQSWTENDF DELREEVFRRSNYSELQEEIRTN GKEVKSFEKKLDEWITRITNAE KSLKHLTELKTKARELQLEKQE LTHSKASRRQETKIRAELEKIE TQKTLQKINESRSWFFKINKID RPLARLIKKKREKNQDTIKND KGDITDPTEIQTITREYYKHL TNKLENLEEMDKFLDTYVLPRL NQEEVESLNRPTGSEIEAINSL PTKKSPGPDGFTAIFYQRYKEE LVPFLLKLSQSEIKERILPSSYE ASIIIPKPGRDTTKKNFRPISL MNIDAKILNKILANRTQQHIKK LIHHEQVGCIPGMQGWFNIRKS INVQHINRTKDKNHMIISIDAE KLISKFSKVSCHKIN/VKQSAF LYTDNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNIIPCSWVG RINIVKMALLP/RFSAIPIKLPMT FFTELEKTTLKFIWN/QKRARIA KSFLSQKNKAGGITLPDFKLYY KATVPKTAWYCYQNRDIDQW NRTEPSEIMLLIYNYLIFDKPDK KKEWGWKDSLFNKWCWENWLA ICRKLKLDPLFTPYTKMNSRWI
10212	40580	A	10273	396	1227	SLGRNSTSQKRVGANIQHS*RK EFSTQNFISSQTTLHK*RRNKIL YRQANAERFCHHQACPKTAPE RSTK/LEARNRLPARLIKKKREK NQIDATKNDKGDITDPTEIQT IREYYKHLKYANKLENLEEMDK FPDVTYTLPRLNQEEVESLNRPT GSEIEAIIKSLPTKKRPGPDRFTA EFYQRYKEELVPFLLKLFQSTE KEGILPNSFYEAIIIAKPGRDT TKKENFRPISL/NIDAKILNKILA NRIQQHIKKLIHHDQGVFIPGM QGWFINI
10213	40581	A	10274	1	2168	
10214	40582	A	10275	1	1845	

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10215	40583	A	10276	1	2877	MENDFDELREECFRQSNYSER EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMFLKTKAQELR EEWRSLRSRCDQLEERVSAE DEMNMKGEGKFKREKRIKNE QSLQEIWYVVKRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPQRYSS RRATPRHIVRFTKVEMKEKML RAAREKEIQTTSIYKYKHLTYN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRPTGAE
10216	40584	A	10277	1	1689	MIFSIDAEKAFDKIQPFMLKTL NKLIGIDGMYLKIIRAMYDKPA ANIILNGQKLEAFPLKTGTROG CPLSPLLFNIVLEVLAIRAEK EIKGIQLGKEEVKLSLFADDMI VYLENPITSAQNLLKLISNYSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLNKIKEDT NKWKNIPCSWVGRINIVKMAIL PKVIYTFSAIPLPMTFFTELEK TTSKFIWNQKRARIASILSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM PHIYNILFDKPKDNKQWGKDS LFNKWCWENWLDIWRKLKLD PFLTPYTKINSRSIKDLHVRPKTI KTLEENLGDITQDIGMGKDFMS KTSKAMATKAKIDKWDLIQLK SFCTAKETTIRVNRQPTWEKIF AIYSSDKGLIFRIYKELKQIYKK KTNSPIKKWVKDMNRHFSKEAI YAAKRHMKKCSSLAIREMQIK TTLSLPAQVSVV/RHGLSFCWD SRGICGKSGFLAYSINFPQSH WDQEQVM
10217	40585	A	10278	1	2142	

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10218	40586	A	10279	1	1722	MIISIDA EKAFDKIQQRFMLKTL NKLGDGLYLKIRAIYDKPTAN IILNGQKLEALPLKGTGRQGCPL SPLQFNIVLEVLARAI RQEKEIK GIQLGKEEVKLSLLADDMIVYL ENPIVSAQNLLKVISNFSKVSGY KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWYQKRARITKSILSQRNK AGDITLPDFKLYYKATV NKTA WYWHQNRHIDQWNRTKPSEIT LHIYNYLFFDNPDKNKKWGKD SLFNKWCWENWLAICRKLKLD PFLTPTYKINSRWIKDLNIRPKTI KTL EENLGITIQDIGMGKYFMT KTPKAMATKAKIDK WDLIKLK SFCTGKETIIRVNRPQTKWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYA AKKHMKKCSPSLAIREMQI KTTMRYHLTPT/RLIVIGIEELR GKEKLETLYYWNSDTHQV*W LGWP*WKSDHKKEQPSF

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10219	40587	A	10280	1	2076	MDKFLNTYTIPLRNQEEVESLN RSITGSEIEAIHNNLPTRKSPGPD GFTPEFYQRYKEELVPFLKLF QSIKKEGFLPNSFYEGSILITKS GRDTTKKENLRPISLMNINAKIL NKILANQIQHHKLLHHEQVDF IPGMQGWFNIRKSINVIQHNR NDKNHMIISIDAEKAFDKIQQLF MLKTLNKLGDGTYLKIIRAIYD KHTANIILNGQKLEAFPLKTGT RQGCPLSPLFNIVLEVLARAI QEKEIKGIGLKEEVKLSLFAD DMIVYLENPIVSAQNLLKLIGNF SKVSGYKISVQKSQAFLYTNKR QTESQIMSELPFTIVSKRIKYLGI QLTRDVKDLFKENYKPLLNEIQ DETNRWKNCSWVGRINIVKM VILP/KELEKTTLKFIWNQKRAR IAKTILSQKNKAGGITLPDFELH YKATVTKTACYLYQNRDIDQR NRTEPSEIMPHIYNYLIFDKSOK NKKWGKDSLKNWCWENWLA ICRKLKLDPLPPYTKINSRWIK DLNVRPKTIKLEENLGNTIQDI GMGKDFMSKTPKAMSTKAKID KWDLIKLSFCTAKETAIRVNR EPTWEKIFAIYSSDKGLISRIYN EFKQIYKKKTNNPIKKWAKDM NRHFSKEDIYAANRHMKKCSSS LAIREMQIKTTQVGGSEKSSAS ELGNKLIELDQSEEWROKED

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10220	40588	A	10281	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFFSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRINKLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQLEKEKQEQTSHKASRRQ EITKIRAEKIEITQKTVQKINES RSWFFERINKIDRLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLANKLENLEEM DKFLDYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAEFYQRAIRQEKEIKGIGLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFTELKKTTLNFIWNQK RAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSLFNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
10221	40589	A	10282	1	1996	

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10222	40590	A	10283	1	1778	MIISIDAEKAFDKIQPFMLKTL NKLIGIDGTYLKIIRAIYDKPTAN IIPNGQKLEAFPLK TGT TQGC PF SPLLFNIVLEVLARVIRQEKEIK GTQLGKEEVTLSLFADDMIVYL QNPVSAQNLLKLIGNFSKVS G YKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFKWNQKRACIAKSILSQKNK AGGIMLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNYLIFDKPDQNKQWGKDS LFNKYYWENCLAI CRKLKLD P FLTPYTKINSRWIKDLNVR LKTI KALEENLGNTIQDIGMGKDFMS KTPKAMATKDIDKWDLIKPK SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRNYNELKQIYK KKTIGPIKKWAEDMNRHFSKE DTYAAKKJMKKCSSSLAIREM QIKTTMRYHLTPVRMVIKKSG NNRCWRGCGETGTL SHCWWD CKL/IQPLW/RFLRD*GPKTGGD S*MIQVKY*PQKKKGCPNA
10223	40591	A	10284	3	2875	

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10224	40592	A	10285	1	1838	MIIPIDAEEKAFDKIQPFMLKTL NKLGIHGMYLKIIIRAIYDKPTA NIILNGQKLEAFPLKGTGRQGCPC LPPLLFNIVLEILARAIQEKEIK GIQLGKEEVKLSLFADDMMIYLE NPVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLNEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGDLSLF NKWCWENWLAICGKLLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNLELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPICKWAKDMNRHFSKEDIY AANRHMKKCSSSLAIREMPIKT TMRYHLTPVRMAIHKSGNNRC WRGCGEIGTLSHCWWDCLNVQ PLWKA VWRFLKDLEIIPFDP ISLLG/TYPKDYKSCCYKDTCTQ STFTCRQHLPL
10225	40593	A	10286	1	2046	

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10226	40594	A	10287	1	1700	MEDEMNMKQEGKFREKRIKR NEQSLQEIWYVYKRPNLRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIQEIQRMPORYSS RRATPRHIIVRFTKVEMKEKMS RAAREKEIQTIREYYKHLAYAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQRQSESI MSEFPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMTFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI ETLEENLGITQIDIGMGDFMS KTSKAMSTKAKIDKWDLIKLS FCTAKETTIVNRQPTKWEKIF ATYSSDKGLISRIYNELKQIYKK K'TNNPIKKWVKDMNRHFSKE DIYAAKRHMKKCSSSLAIREMQ IKTTMRYHLTPV
10227	40595	A	10288	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDIYRTLHPKS TEYTFFSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRKKNLTQNRSTTWKLNLL LNDYVWHNEMKAEIKMFFETN ENKDTTYQNLWDTFKAVCRGK FIALNAHKRRQERSKIDTLTSQ KELEKQEQTHSKASRRQETKIR AELKEIETQ

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10228	40596	A	10289	1	2019	MDTIKNDKGDITDPTEIQTTIR EYYKHLKYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPVRG SEIEAIINSLPT/KKSPGPDEFTAE FYQRKAFFDKIQQAFTLKTNLK LVIDGTYRKIIRAI CDKPTANIIIL NGQKLEAFPLKTGTTRQGCPLSP LLFNIVLEVLDRAIRQEKEITCIG LGKEEVKLSLFAADDMIVYLENP IISAQNLKLSNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKKIKYLGQLTRDVKD LFKENYKPLLNEIKEDTNKWN IPCSWVGJRNIMKMAILPKVIYR FNAIPKLPVAFTELEKTTLKFI WDQKRAYIAKSILSQKNKAGVI MLPDFKLYYKATVTTKTA WYW YQNRDIDQWNRTEPSEIMLHIY NYLIFDKPDKDEQWGKDSL FN KWCWENWLDIWRKLKLDPFLT PYTKINSRWIKDLNVRPKTIKTL EENLGNITLIDGMGKDFMSKTP KAMATKAKIDNWDLIKLSKFC TAKETTIRVNRQPTKWEKIFTT YSSDKGLISRIYKELQIYKKKT NNPMNKWAKDMNRHFSKEDI YAAKRHMKKCSSLAIREMQIK TTMRYHLTPVRMVIKKSGNNR PPLSKEQPIFRLSILATTRDGN PAAVENVLHIKATLSFQQTHKA FYFQPS
10229	40597	A	10290	1	3144	MGDFTNPLSTLDRSSQKVNK DTQELNSTLHHADLIDYRTLHP KSTEYTFPSAPHHTYSKIDHVV GSKALLSKCKRTEHTNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLLNDYVWINKMKAIEIKMFF ETNENKDTTYQNLWDTFKA VS RGKFIALNAHKKQKRCCKIDTL ASQLKEVEKQEQTSHKASRRQ EITKIRAELEIETQKTLQKINES RSWFLERINKIDRPLARLIKKKR EKNQIDVIKNDK
10230	40598	A	10291	1	2274	
10231	40599	A	10292	1	2250	
10232	40600	A	10293	1	822	

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10233	40601	A	10294	1	2605	MKA E I K M F F E T N E N K D T T Y Q N L W D A F K A V C R G K F I A L N A Y K R K Q E R S K I D T L T S Q L K E L E K Q E Q S H S K A G R R Q E I T K I R A E L K E I E T Q K T L Q K I N E S R S W F F E R I N K I D R P L A R L I K K K R E K N Q I D T I K N D K G D I T T N P T E I Q T T I R E Y Y K H L Y A N K L E N L E E M D T F L D T Y T L P R L N Q E E V G S L N T P I T G S E I V A I I N S L P T K K S P G D G F T A E F Y Q R Y K E E L P G R V P T K K E N F R P I S L M N I D A K I L N K I L A N R I Q Q H I K K L I H H D Q V G F I P G M Q G W F N I R K S I N V I Q H I N R A K D K N H M I I S I D A E K A F D K I Q Q P F M L K T L N K L G I D G T Y F R I I R A I Y D K P T A N I L N G Q K L E A F P L K T G T R Q G C P L S P L L F N I V L E V L A R A I R Q E K E I K G I Q L G K E E V K L S L F A D D M I V Y L E N P I V S A Q N L L K L I S N F S K V S G Y N F Y V Q K S Q A F L Y T N N R Q T E S Q I M S E L P F T I A S K R I K Y L G I Q L T R D V K D L F K E N Y K P L L K E I K E D T N K W K N I P C S W V G R I N I V K M A I L P K V I Y R F N A I P I K L P M T F F T E L E K T T L K F I W N Q K R A R I A K S I L S Q K N K A G G I T L P D F K L Y Y K A T V T K T A W Y W Y Q N R D I D Q W N R T E P S E I M P H I Y N Y L I F D K P E K N K Q W G K D S L F N K W C W E N W L A I C R K L K L D P F L T P Y T K I N S R W I K D L N V R P K T I K T L E E N G I T I Q D I G V G K D F M S K T P K A M A T K A K I D
10234	40602	B	10295	111	2440	

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10235	40603	A	10296	I	1795	MIISDAEKAQDKIQQPFMLKTL NKLSDGTYFKIIRAIYDKPTANI ILNGQKLEAFPLKTGTGRQGCPL SPLLFINVLEVLARAIQKEIK GIQLGKEEVKLSLFAHDMIVYL ENPIVSAQNLLKLI SNFSKVSQI KINVQKSQAFLYTNNRQTESQI MSELPFTIASKRKYLGQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSGVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIVNQKGCITKILS/QKNK VGGITLPDFKLYYKATVTKTA WYWYQ\NRDIDQWNRKPSEIM PIINYNLIFDKPEKNRQWGEDS LFNKWCWETWLAIWRLKLDLP FLTLYAKIN*RWIKDLNVRPKTI KTLLENLGITIQDUGMGKDFM SKTPKAMATKAKIDKWDLIQI KSYCTAKENTIRVNRQPTKWE KIFATYSSDKGLITRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAACKHMKKCSSSLAIRE MQIKTTMRYHLTPVRMAIIQKS GNNRTKRTIYRRNDDDDNDD NDDDSLMSLSTEIPFSSYSELN VVLHKPRPEPSASTILLHTA
10236	40604	A	10297	I	2851	
10237	40605	B	10298	I	3220	

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10238	40606	A	10299	1	2047	MENDFEELREEGFRRSNYSER EDIQTKGKEVENFEKNLEECITR ITNTQKCKELMELKTKARELR EECRSLRSRCDQLEERVSA MED EMNEMKREGKFREKRIQRNEQ SLQEIWDYVVRPNLRLIGVPET LHPRDEAHLKNLDAIKNDKGD ITTDPTIEQTTIREYYKHLYANK LENLEETDKFLDTYTLPRNLQE EVESLNRPTGSEIVAIINSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQLRIQNQCITKI'SILIHQ QQTNRPNHE*TPHNCFKENKI PRNPTYKGCEGLQGELOTTAQ GNKRGYKQMEHSMMLGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRIGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTHLQGYSNQNSMVLVPKQR YRSMEQNRALRNNAAYLQLSD L*QT*EKQEMGKGPI**MVLG KLASHM*KAETGSLPYTLYKN QFKMD*RLKR*T*NHKNPRRKP RHYHSGHRHGGQLHV*NTKSN GNKSQN*QMGSN*TKELLHSE KKKNY*QTEQATCKMGENFHN LLI*QRANIQLQ*TQTNLQEK KNQPHQKVGKGHEQTLLKRRHL CSQKNHEKMTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS

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10239	40607	A	10300	1	2704	MYSHVITVCRHVKNKDILLNR QPTLHRPSIQAHRAIRILPEEKVL RLHYANCKAYNADFDGDEMNR AHFPQSELGRAEAYVLA CTDQ QYLVPKDGGQPLAGLIQDHMVS GASMTIRGCFFTREHYMELVY RGLTDKVGVRVKLLSPSILKPFPL WTGKQHINRTKDKNHMHSIDA EKAFDKIQPFMLKTLNKLGD GTYLKIIIRAIYDKPTASII.LNGQK LEAFPLKTGTRQGCPLSPLLFNI VLEVLARAIRQEKEIKSIQLGKE EVKLSLFADDMIVYLENPTVSA QNLLKLSMNSFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSGLP FTITSKRITVYLG IQLTRDVKDLF KENYKPLLEIKEDTNKWKNNIP CSWVGRINIVKMAILPKVIYRF NTIPIKLPMTFLTELEKTTLKF WNQKRAHIAKSILSQKNKAGGI MLPDFKLYYKATVTKTAWYV YQNRDIDQWNRTEPSEIMPHI/Y YNYLIFDKPEKNKQWGKDTLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKT PKATATKAKIDKWDLIQLKSFC TAKETTRVNRQPTWEIEIFAIY SSDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSEEDIYA AKKHMKKCSSSLAIREMQIKTT MRYHLTPVRMVIHKSGNNRRC
10240	40608	B	10301	1	3345	

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10241	40609	A	10302	248	2623	RQWAGVVGRCSHLASWVSSNT SETGAIRSSTEVDAPDDSMMLST CDIDLTAARRAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFLL KLFQSI/EKEGILPNLFDEASII PKRGRDITKKENFRPISLMNID AKILNKILANRNQQHKKLIHH DQVGFIQMGQWFNICKSINVI QHINRTKDKNHMISIDAFAKAF DKIQQPFMLKTLNKLGDGTYL KIIRAIYDKPTANIILNGQKLEAF PLKTGTGRQCPLSPLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKWKNI PCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFK LYLQGLQ*PKTAWYWY\QNRD IDQWNRTEPSEITPHIYNLYLFD KPEKNQWGDLSFNKWCWE NWLATCRKCLKDPFLTPYTKIN SRWIKDLNVRPKTIKLTLEENLGI TIQDIGVGKDFMSKTPKAMAT KAKIDKWDLIKLSFCTAKETA IRVNRQPTTWKIFATYSSDKG LISRIYNELKQIYKKK\TNPIKK WAKDMNRHFSKEDIYAANKH MKKCSPLAIREMQIKTMRHY

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10242	40610	A	10303	1	2467	MGDFNIPLSTSDRSTRQKVND TQELNSALHQADLIDYRTLHP KSTEYTFFSAPHHTYSKIDHIVG SKALLSKCRRTEITNCLSDHSA IKLEIRIKKLTQNCSTTWKLNLL LLNDYWVNNEMKAEIKMFFEI NEDKDTTYQNRWDTFKAVCR GKFIALNAHKRQKERSKIDTLT SQLKELEKQEQTHSKASRRQEI TEIRAELEKIEITQKTLQKMNES RSWFFEKINNIDRLLARLIKKKR EKNQIDAINKHKGDIITNPTEIQ TTIREYDKHLYANKLENLEETD KFLDTYILPRLNQEVEESLNRPI TGAEIEAIIISLRTKKSPGPGGF TAEFYQRYKEKLIVLEVLARAI RQEKEIKGIQKGEELKLSLFAD DMIVYLENPVSAQNLLKLISNF SKVSGYKINVQKSQAFLYSNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEV KEDTNKWKINPCSWIGRINIVK MAILPKVIYRFSAIPIKLPMTFFT ELEKTTLKFIWNQKRSRIAKSIL SQKNRAGGITLSDFKLYYKATV TKTAWYWYQNRDIDQWNKTE PSEIMPHIYNYLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLDPFLLPYTKINSRWIKDL NVRPKTIKLEENLGITQDTGM GKDFMSETPKAMATKDKIDKW DLIKLKSFACTAKETTIRVNRQPT
10243	40611	A	10304	2	2480	
10244	40612	A	10305	1	4793	MGDFNTPLSTLDRSTRQKVND DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYWVNNEMKAEIKMFFEI ETKENKDTTYQNLWDAFKAVC RGKFIALNAHKRQKERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKIEITQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
10245	40613	A	10306	1	4320	

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10246	40614	A	10307	1	3229	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIIDYRTLQ PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAV CRGKFIALNAHKRQERSKIDTL LTSQKLEKQEQTHSKASRRQ EITKIRAEKKEIETK\TLQKINE SRSWFFERIKKTDRPLARLIKKE REKNQIDTI
10247	40615	A	10308	1	3392	MGDFNTPLSTLDRSRQKVNK NTQELNSALHQVQLIDYRTLH PKSTEYTLFSAPHHTYSEIDHVV GSKALLSKCKRTEIITNCLSDHS AIKLELRINKLTQNCSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTYPNLWDTFKAVC RGKFIALNAHKRQERSEIDTL LTSQKLEKQEQTHSKASRRQE ITKIRAEKKEIETQKTLQKINESR SWFFEKINKIDRPLARLIKKE KNQIDSIKNDK
10248	40616	A	10309	1	4137	MGKKQNRKTGNSKKQRASPPP KEHSSSPATEQSWMENDFDEL EEGFRSNSYSELREDIQTGKE VENFEKNLEECITRITDIEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSADEMDNEMKQ EGKFREKRIRNEQSLQEIWDY VKRPNLPPIDVPESDRENGTKL ENTLQDVIQENFPNLARQANIQI QEIQRMPPQRYSSRRATPRHIIVR FTKVEMKMLRAAREKAFKQ ASRREDDIKVTSG
10249	40617	A	10310	1	5195	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIHIYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRQERSKIDTL LTSQKLEKQEQTHSKASRRQE IMKIRAEKKEIETQKTLQKINE\ SRSWFFERINKIDRPLARLIKKE REENQIDAI

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10250	40618	A	10311	1	2958	MKQEGKFKREKRIKNEQSLQEI WDYVKRPNLHLIGVPESDREN GTKLENTLQDIIQEDFPNLARK ANIQIEIQRTPTORYSSRRATPR HTIVRFTKVEMKEKMLRAARE KGRVTHKGKPIRLTADLSAETL QARRELNQEEVESLNKPVGTGSE VVAIINSLPTKKSPPGDFTAEF YQKYKEEPVPFLLKLFQSIEKE GILPNSFYEASIIIPKPRDRTTK KENFRPISLMNIDAKILNKILAN RIQQHINKK
10251	40619	A	10312	5211	7687	TDTSQKKTFFYAAKRHMKKCSS SLAIREMQIKTTYHAGPDGFTA EFYQRYKEELVPFLLKLFQSIEK EGILPNSFYEASIIIPKPRDRTT KKENFRPISLMNIDAKILNKILA KRIQQHIKLIHHDQVGFIPGM QGWFNIRKSNVQIHNRKADK NHMIISIDAFAFDKIQQPFMLK TLNKLGDGTFFKIIRAIYDNPT ANIILNGQKLEAFPLKTGTRQG CPLSPLLFNIVLEVLAIRQEK EIKGIQLGKEEVKLSLFADNMI VYLENPIVSAQNLLKLISNFSKV SGYKINVQKSQAFLYTNNRQTE SQMSQLPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNI PCSGIEGRINIVKMAIL PKNWKKTTLFIWNQKRIARA KSILSQKNKAGGITVPDFQLYY KATVTKTAWYWYQNRDIDQW NRKEPSEIMPHIYDSLIFGKPKD NKQWKGDSL FNKWCWEDWLA ICRKLKLDPFLTPTCKINSRWV KDLNIRPKTIKTEENLGNITQD IGMAKDFMSKTPKAMATKAKI DKWDLIKLSFCTRIAKEPTIRV NRQPTKWEKIFATYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKHKHMK KCSSLAIREMQIKTTMRYHLT PVRMAIIKSGNNRCWRGCGE TGTLHCWWDCKLAQPLWKS

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10252	40620	A	10313	1	4525	MGDFNTPLSTLDRSTROQVVK DTQELNSALHQADLIDYRTLH HKSTETFFAAPHHITYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRIKNLTQNRSTTWKLN LLLNYYVWHNEMKAEIKMFFE TNKNKDTTYQNLDWTFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKQLEKQEQTHSKASRRQEI TKIRGELKEIETQKTLHKINESR SWFFERINKIDRLARLIKKKRE KNQIDAIINDKG
10253	40621	A	10314	1	1185	MEDIKRTQNKLESEMKAELAEM KNTLDGINDHGRDSRRKIRKLQ DNGGDDPTGNTQRKKNLINGP SLSVHIGEKRGRRSWAETLTP LQTKALRLGPTTPSARRKCGIV PNLQTRKTEAYRYPDTHPGETP VGTAVLSIQPKLESVIDVRVN MSSFHPEPELQPTQTSVLPDQD ATVAGSTTKFPEEQEARQGRVR ERPATRERPVPGGVSVPLHHI HFLRGPSPLASLTRITVLEAVV CFFSVWSIVGLSGFHTYLISSNQ TTNEDIKGSWSNKRKGKENYNP YSYGNIFTNCCVALCGPISPRT/ LSHTGQRPTPIECEPHNLV TSA ETLLASKPD/PTEEGTSSPTRRS QQHPPMASPTGPRSHRV TCTL EKREEEGVGQRLSPLCKPRL
10254	40622	A	10315	44	302	GLLGPGPTAC*CGPHCGIHPES SPQSWCLCHSHRSSRAPPLARL SGDRHPGWRTWGGRDARSVA RGQWWCLVEPVLFPFSTRSAFW

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10255	40623	A	10316	3	2182	IRDPGKKPVMFLFHGGSYMEG TGNMFDGSLAAAYGNVIVATL NYRLGVLGLSTGDQAAKGNV GLLDQIQALRWLSENIAHFSGD PERJITIFGRYSQPLSYHIAFGPV VDGDVVDPDPEILMQQGEFLN YDMLIGVNQQGEGLKFVEDSAE SED/GAFDFTVSNFVDNLVGYG EGKDVLRETIKFMYTDWADRD NGEMRRKTLALFTDQWVAP AVATAKLHADYQSPVYFYTFY HHCAEGRPEWADAAHGDPEL YVFGVPMVGATDLFPCNFSKN DVMLSAVVMYWTNFAKTGD PNQVPVYDTKFIHTKPNRFEV VWSKFNSKEKQYLHIGLKPRL WSRFRGVLYQVFHDICEKEAP KSSLLRKQTQPKKQSSPAVHL RCTMDPVMMTVSPPAHRHRR RGSPTCAHCPVAVAPDTDDE KPHQYPAICSYHWDVPEDWEG FQHTQGTWVPWSQDAPESPQ TIRFQPTVEERPLKTGIWSELGL RAYVYPVNPVPPSPPEAPSHKNG RIVYDARDMRRRLRELTREVE ALSGCYPLASGSSAEETSKNW VYRSLTGSQKMSQLHRVPPFD QEDPDSYLEEEDNLPFPYKYP RRGWGFGYQRAGLPSNVGLW GHQGGILASLPPSLYLSPELRC MPKRVEARKCQDLGDSILLLLG SFILLNVWINVVTLLWKHLKSS
10256	40624	B	10317	37	241	
10257	40625	A	10318	2	815	
10258	40626	A	10319	1	943	RAGGQGVG*GWGPPSVPCSVH GGKGL/PPEEGPQVTHLEFGR GDGLLTPWPLTGDGRGPSA/S LASQRTCSQ*GMWLPAAQPSPS HPGPAGTVGQSHLHL*GLLGP PPHCLLMRPTLRDSSRVFTSKL VSPVQPVQVQGPTRTKTVWRS ASWMENLGRKGCQVCSTWPM VVPGGACTSIWEWEADRVTPG GHRGSSCSHSAAGGANAAPHG PRGRPGGHAAAGGRHSTDGSR SCSPRPDPGAARPQSAVHTDY RSPSLGTFLAQPFGESKSDQSA PGIRGQKAPLAVARRGQQTFRP RGQARGRGRTFRP

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10259	40627	A	10320	39	621	SCPEEESSLLSPGTSWPLHAW ACSAAQVTGRERVVADWPGY HPGGPTAPHWRAGPLSDKTRPS RDVGTWDTGRAGCPPPPGRNP GPPDQRKALGVVTSFGSQLG NGTPNSCLSPRCQWIQLRGSS RTGPPPPGSVPEAAVSCPGIHT LFLRSGAGKIQG*LLGPGWEL GQAGTEPPLPLAPPPHRSCG
10260	40628	A	10321	1	496	AAATYVQNQSEDCLYNLNLYVP TEDGPLTKKRDEATLNPPDTDI RDPGKKPVMFLHGGSYMEGT GNMFDGSVLAAYGNVIVATLN YRLGVLGFLSTGDQAAKGNYG L/LDQIQALRWLSENIHFGGDP ERITIFGSGAGASCYNLLLSHH SEGLFQKAIQSGT
10261	40629	A	10322	1	4304	MLPVWFTDNLGAATYVQNQ SEDCLYNLNLYVPTEDEGLTKKR DEATLNPPDTDIRDPGKKPVMFL FLHGGSYMEGTGNMFDGSVLA AYGNVIVATLNLYRLGVLGRYS QPGLSYHIAFGPVVDGDDVVPDD PEILMQQGEFLNYDMLIGVNG EGLKFVEDSAESDGVSAFAFD FTVSNFVDNLYGYPEGKD/DW ADRDNGEMRRKTVLLALFTDH QWVAPAVATAKLHADYQSPV YFYTFYIIHCQAEGRPEWADAA
10262	40630	A	10323	1	2765	MDVGFSRTTVQTLRSRSHCKNIK QKISQWEGRANGISNPEKWCPK DFGVRYNCHQEIRLKKNPJAER KSKNLDVTSRENVGLDINENTK SHDQSENENKKHEYDDTHFFK NESESNWVCSRVEIESCKEDV LDPETSLPPGNFYTSQILWKKIE ALPPDKLLNALALEHCDSSSEKEL NFRVLDSSYGITKSLENIYSEPE GQECGSPINPLKPRRTFRYLSE SGVTPYKERNCDKKYCENNSC AQSSLASSQPE
10263	40631	A	10324	2	597	RWLIPKVMRIYDTQKKMDREA SQAALQKMLTLLMLPPTFGDLL REEYIGDNGDPQTLQAQFQEM MADSMFVIPALQVAHFQCSRA PVYFYEFGHQPSWLKNIRPPHM KADHVKFTEEEEQLSRKMMKY WANFARNGNPNGEGLPHWPLF DQEEQYQLNLQPAVGRALKA HRLQLWKKALPKIQIELEEPE ERHTEL

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10264	40632	A	10325	2	1766	PGQPLGEQQRVRRQRRTETSEPT MRLHRLRLASAVACGLLLLL VRGQGQDSASPIRTTHTGQVLG SLVHVKGANAGVQTFLGIPFAK PPLGPLRFAPPEPPESWSGVRDG TTHPAMCLQDLTAVESEFLSQF NMTFSDMSMEDCLYLSIYTPA HSHEGSNLPVMVWIHGALVF GMASLYDGSMALAAENVVVI IQYRLGVLGFFSTGDKHATGN WGYLDQVAALRWVQQNIAHF GGNPRVVTIFGESAGGTSVSSL VVSPISQGLFHGAIMESGVALLP GLIASSADVISTVVANLSACDQ VDSEALVGCLRGKSKEILAIN KPFKMIPGVVDGVFLPRHPQEL LASADFPQPVIVGVNNNEFGW LIPKVMRIYDTQKEMDREASQA ALQKMLTLLMLPTTFGDLREE YIGDNGDPQ/TLPKRF/QKMM ADS/MFVIPALQVAHFQ/CS/RAP VYLPTSSQH/QPSWLKNIRPPH MKADHGDLEFPVRSFFGGNY IKFTEEEELSRKMMKYWANF AR/NGNPNGEGLP/HWP/LFDQE EQYLQLNLQLA VGRALKAHRF /QFWKKALPQKIQ/LEEPPEERH
10265	40633	A	10326	2	435	ILAEFGSLHLEFLHUTELSGNQV FAEKVRNIRKVL RKIEKPFGLYP NFLSPVSGNWVQHHVSVGGGLG DSFYEYLIKSWLMSGKTDMEA KNMYEYEALET/HKLGPEAFWF NSGREAVATQLSESYILRPEV VESYMYLWRQTHNTK
10266	40634	A	10327	3	583	

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10267	40635	A	10328	1	1299	MHLNQLPPILSRLGAVGFFGSM KAHLVSVSRQVRNIRKVLKIE KPFGLYPNFLSPVSGNWVQLPI PGSVAAGEMPASYPYRRAPE VRRVCEALPHHVSVGGLGDSF YEYLKSWLMSGKTDMEAKN MYEALAEIETVLLNVSPGGLT YIAEWRGGILDHMKMGLACFS GGMIALGAEDAKEEKRAHYRE LAVQITKTCYESYAR\SDTKLGP EAFWFNSGREAVATQLSEE/YT YILRPEVVESYMYLWRQTHNP SYREWGWVVLALAEKYCRTE AGFSGDSKTCYSRHPQPTTSR QSFFLAETLNRCLVSACNGPDT GLEARDTAESETVISPAVKGSR GEKAMVRETDKPAKICIGKSK NGKSDLKAASKMDAQFRSLCF EEVTPLWFEKVLNMGASPSPV SPGGLSLEVWSLVMWHKDARP
10268	40636	C	10329	186	401	
10269	40637	A	10330	194	482	
10270	40638	A	10331	224	495	
10271	40639	B	10332	138	1810	
10272	40640	A	10333	1	1351	MGGVGEGPGREGPAQPGAPLPT FCWEQIRAHDPQGDKWLVIER RVYDISRWAQRHPGGSRLIGHH GAEDATDAFRAFHQDLNFVRK FLQPLLIGELAPEEPSQDGPLNA QLVEDFRALHQAEDMKLFDA SPTFFAFLGHILAMEVLAWLLI YL/LGPVWVPSALAAFILAIQ AQSWCLQHDLGHASIFKKSWW NHVAQKFPVMGQLKGFSAHWW NFRHFQHHAKPNIFHKDPDVT VAPVFLGESSVEYGGKKRRYL PYNQQLHYFFLIGPPLLTLVNFE VENLAYMLVCMQWADLLWA ASFYARFLSLSYLPFYGVPGVL LFFVAVRVL\ESHWVFWITQM NHIPKEIGHEKHRDWVSSQLAA TCNVEPSLFTNWFSGHLNFQIE HHLFPRMPRHNYSPVAPLV\KS LCAKHGLSYE\VKPFL\TALVDI VRSKK\SGDIVLDA\YLHQ
10273	40641	A	10334	43	399	

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10274	40642	A	10335	1	2229	FLKVC PQNNAETFGCLGTGEEK GDRGNQQTQKPLHYKSWSLFHR SCPRDFYGSKVGD FQ GK ENGR G\GESVYGGFFEDGVS LVKDH\ KEFLLSMANRGKDTNGSQFFIT TKPTPHLDGHHVVFGQVTS GQ EVVREIENQKTDAAASKPFAEVR ILSC\GELIPKSKVKKEEKKRHK SSSSSSSSSDSDSRYS\QSSSDS SDSESATEEKS KKRKKKHKRKN RKHKKEKKRKKSKKSASSES EAEN/LEAQPPVLLFRPEIPLP IPENRFLMRK\SPPKADEKERKN RERERERECNPPNSQPASYQRR LLVTRSGRK\KGRGPRRYRTPS RSRSDLFRRS\ETP\PHWRQEM QRA\QRM RVSSGER\WIKGDKS ELNEIKENQ RSPVRVKERKITD HRNVSESPNRKNEKEKKVKDH KSNSKERDIRNSEKEDKYKNK VKKRAKSKSRKSKEKSKSKER DSK\HNRNEEKRMRFKELKGR DHENVKEKEKQSDSKGKDQER SRSEKSKQLESKSNEHDHKS KEKDRRAQSRSECDITKGKHS YNSRTRE\RSRRRDSSSRVRSRP HDRDRSMK\EYHRYRDQVYS RRVRSR SRERRTPGRSRSRDR RRRRRDRSSSEREDSQRNKKDK YRNQESKSSHRKENSESEKRM YSKSRDHNSNNSREKKADRD QSPFSKIKQSSQDDELKSSMLK
10275	40643	A	10336	3	3366	

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10276	40644	A	10337	3	2431	GCLQELSVLFARGEPRGPHNL LHYMLALIGVPEVFWAFLFHCS I.GLEEEKLAPLKGEEKIVWLRS SFYFQHCLVDKSTLLPSSSVSLG IFHEEKNSGEFPFAKAVRLALV PLRYVKLEDRDNWISVDSVTSE IKLAKLPDFESRYVQNGTYTVK IVAISEDYPRKTITGTVLINVEDI NDNCPTLIEPVQTICHDAEYVN VTAEDLDGHPNSGPFSSVIDKP PGMAEKWKIARQUESTSVLLQQ SEKKLGRSEIQLISDNQGFSCP EKQVLTLTVCECLHGS/GCREA QHDSYVGLGPAALMILAFLL LLLVPLLLLMCHCGKAKGFTF IPGTIELHPWNNEGAPPEDKV VPSFLPVDQGGSLVGRNGVGG MAKEATMKRKVSSAIVKGQH EMSEMDGRWEEHRSLLSGRAT QFTGATGAI/MTTETITARATG ASRDVAGAAQAAVALNEEFLK NYFTDKAASYTEEDENHTAKD CLLVYSQEETESLNASIGCCSFI EGELDDRFLDDLGLKFKTLAEV CLGQKIDINKEIEQRQKPATETS MNTASHSLCEQTMVNSENTYS SGSSFPVPKSLQEANAELVQEI VTERSVSSRQAQKVA TPLPDP ASRNVIATETSYVTGSTMPTT VILGPSQPQSLIVTERVYAPAST LVDQPYANEQTVVTVTERVIQPH GGGNSPLEGTQHLQDVPYVME
10277	40645	A	10338	5	354	RPRLTSQDIKKPDC/DGEDAIGR GFECDLHLEKIVHFALHLEKN VNQSLLEHLKATDKNDPHLC DFIETHYLNEQVKAKELGHDHV TNMHEMGAPDSGVAEYFLDKH TLGSDNES

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10278	40646	A	10339	I	2024	GEALMYHTHFSELLDEFSSQNVL GQLNDPFLSEKSVSMEEVESP TSPAPLIQAEHSYSLCEEPRAS PFTHITTSDFSNDDEVESEK WY LSTDFPSTSIKTEPITDEPPGLV PSVTLTITAISTPLEKEEPPLEIEQ WGLIPRARPLFPKIKLEPHEVDQ FLNFSPKEAKHLHIIFPSWAACT CGSSGNSAIRIILAYSALRVPT ETKKPRDLFGKTGREKKEETS REKLYVAERERKAPVDHLHLP TPPSSHGSDSEGLSPNRLHPF SLPQTHSPSRAAPRAPSAISSP LLTAPIHLQSGPLVLTETEEKR TLIAEGYPIPTKLPLSKSEKAL KKIRRKIKNKISAQESRRKKKE YMDLSLEKKVESCSTENLELRKK VEVLENTNRASHGELVIGVLGK GRRWDPLTSPHAGDQCLGSV QGWAGECTPRQLDGSRTTLISE EDPGSPMGGEALGAIVSYA WRGREALHASRVGAVIQAPIA AGSDICLSDIRESATSSQTNISVT RTLQQLQKLQTLVMGKVSRT CKLAGTQTGTCLMVVVLCAV AFGSFFQGYGPPSATKMLPS QHSLEQPYTASVVRNRLLIYE EHSPPPESSSPGAGELGGWDR GSSLLRVSGLESRPDVLPHFIIS NETSLEKSVLLELQQHLVSAKL
10279	40647	A	10340	I	489	

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10280	40648	A	10341	1	2665	MESTLTLATEQPVKKNTLKKY KIACIVLLALLVIMSLGLGLGLG LRKLEKQGSCKKCFDASFRGL ENCRCDVACKDRGDCCWFED TCVESTRIWMCNKFCGETRLE ASLCSDDCLQKKDCCADYK SVCQGETSWLENCDTAQSSQ CPEGFDLPPVILFSMDGFRAEYL YTWDTLMPNINKLKTGHIHSKY MRAMYPTKTFPNHYTIVTGLYP ESHGIIDNNMYDVNLNKNFSL SKEQNPAAWHGQPMWLTA MYQGLKAATYFWPGSEVAING SFPSIYMPYNGSVFEEIRISTLL KWLDPKAERPRFYTMFYEEP DSSGHAGGPVSARVIKALQVV DHAFGMLMEGLKQRNLHNCV NILLADHGMQDQTYCNKMEYM TDYFPRINFFYMYEGPAPRIRA HNPHDFFSFNSEIIVRNLSCKRK PDQHFKPYLTPDLPKRLHYAKN VRIDKVHLFVDDQWLAVRSKS NTNCGGNGHGYNEFRSMEAI FLAHGPSFKEKTEVEPFENIEVY NLMCDLLRIQAPNNGTHGSLN HLLKVPFYEP SHAEEVSKFSVC GFANPLPTESLDCFCPHLQNST QLEQVNQMLNTQEEITATVK VNLPPFGRPRVLQKNVDHCLLY HREYVSGFGKAMRMPMWSSY TVPQLGDTSPLPPTVPDCLRAD VRVPSESQKSCFYLAADKNITH
10281	40649	A	10342	590	900	PLYSATVPSAFCSGQ/LVPHIKS FCRLNIFNR*LIELRHLVFFVLLL FRDLQHIMACNMRDAVRFFVC FLVIFFREGLSRSSCQKCSRKSQ NCGLFYNFFDVHVVH
10282	40650	A	10343	1	804	
10283	40651	A	10344	207	299	
10284	40652	A	10345	738	1007	EDASCDegSTARAVHSMEPAG ARNRQKPHFPQVRGAEPHPW* RCSHPA VAVDPGIALSGKPLC SWRLGSDLPTVWPLPTDPPVS VS
10285	40653	A	10346	150	509	QLPAGSGEGPYHLEGQLSYCHR GGEKALAAALLSSPTSKTRSPSEP DPEQDEQLRFCKRHLGYQQP RSPVEIRLQHVAIAYQTHHAYD *FVQLYNQHVAQPVLEFPYPGA VVALLSRHL

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10286	40654	A	10347	120	620	SYVKYFPHQPAQKYFQQIHSAL GLHNADHVHKKHLLGDNRYPIW IMQPSAHHPARQPEHDNHFR*V QQLYDGDSDHRQFL*HQILFDRT PVSVDQSVEKKG*DHPVRPQ*A APGHVHYLTIPERSSQHYHPGA LQE*TSHPDHIQARGSILASVLS GSDRWRRTYRCL
10287	40655	A	10348	599	1185	MCQNLMTHSKSTEWKITKRFL TETEKHIRTSSLSMKAIHPA/H NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQQSACKR DAELANGALGIIELNNDYTSEK SNEAADHFHVPQAKGNVVI TSYMTNRGFFEDKKATFAPSFL MNIKGNKTSVVKNSILEQQGLT
10288	40656	B	10349	1	975	
10289	40657	A	10350	1	1080	
10290	40658	B	10351	58	1128	
10291	40659	B	10352	1	1029	
10292	40660	A	10353	10	108	
10293	40661	B	10354	208	2237	
10294	40662	A	10355	1	1153	
10295	40663	A	10356	1026	1274	LHIEKSNEAADHFHVACHR*R *ACTCHCNPNWFPRLPQPDPC TSATVEPLYPIRSRRGRTRKPAE GSRAPGCCCCQRPKG
10296	40664	A	10357	434	1128	MCQNLMTHSKSTEWKITKRFL TETEKHIRTSSLSMKAIHPA/H NHTLRDPHYVEDKGHKYLVFE ANTGTENGYQGEESLFNKAYY GGGTNFFRKESQKLQQSACKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLFDTDSRGSKMTIDGI NSNDIYMLGYVSNLTPGYPKPL NKTGLVLQMGDPNDVTFITYS HFAVPQAKSNVNVNYGA
10297	40665	A	10358	300	491	SYVKYFPHQPAQKYFQQIHSAL GLHNADHVHKKHLLGDNRYPIW IMQPSAHHPARQPEHDNHFR*V QQLYDGDSDHHRQFL*HQPAQKY FQQIHSALGLHNADHVHKKHLLG DNRYPIWIMQPSAHHPARQPEH DNHFR
10298	40666	B	10359	1	1226	
10299	40667	A	10360	1369	1548	
10300	40668	A	10361	1	1365	

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10301	40669	A	10362	1560	2384	MCQILMTHSKSTEWITKRFLTE TEKHIRTSSLSMKAIHPA/HNH TLRDPHYVEDKGHKYLVFEAN TGTENGYQGEESLFNKAYVGG GTNFRKESQKLQSAKKRDA ELANGALGIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMN GKWYLFDTDSRGSKMTIDGINSN DIYMLGYVSNSTLTPYKPLNKT GLVLQMGDPNDVTFYSHFA VPQAKGNNVVITSYMTTRGFFE DKKATKAPSLFNMKNKGNKASV VKNSILEQQGLAVN
10302	40670	B	10363	783	881	
10303	40671	A	10364	1	1359	
10304	40672	A	10365	1512	2010	ENFPHPAQKYFQQIHSAGLH NADHVHKHLLGDNRYPIWIMQ PSAHPARQPEHDNHFR*VQQL YDGDShRQFL*HQILFDRTPVS VDQSVEKKG*DHPVPRPQ*AAP GHVHYLTIPERSQHYHFGALQ E*TSHPDHIQAK*WHYR/GHYS YARN*RIHHRGWSWR
10305	40673	A	10366	62	368	TGARRVPWPRRGARLRGRARA RSDSEGSAGDPPSPFPWWGW RWVTTAASPANLWPSVARSTM VDRAINL/FFLKMKGDALTED KREQAQNEQSAWKFTPGR
10306	40674	A	10367	2	305	CTINNPFS/HGVGFKQHPQA LTEIQKFAMKEMGTPDVRIDTR LIKAVWAKGIRNVPIRVRRLS RKRNEDEDSPNKLYTLVTYVP VTFKNLQTVNVDEEN
10307	40675	A	10368	129	283	HLILFLKHKYCFAREEEEEK*R GVGGEHEEEEEEEEEEEEEIEI FKSIVY
10308	40676	A	10369	777	1755	DIWDQTEHQSSGPWSYGTSTDP EPTSDLAIVIFEKRGGEHEEEE KEEEEGRRR/EEEEKEEEE/GRRR EEEEEEEEEEEE/GRRAQEEEEEE KKEEEEEEEEEWCLGEEESQPG HAEVPSPHKMGALTLRVEGV KEQEAKLLRSSDLMKGDFFSTS QHPPQCSKRTNSNADAKSKK KERPIMTFRQKTFRIRILPLPQ GRIAGSNKLSAKLCTDGRGAG DVGVLTVNMLKRLHFTIDHFLF KHQMSPSASWNLWSLLDQDSL KCQICLEGYAQGGKPDVQLLPP RLTADWKGHRWGQMMGLDE KLTPSSVMVTSVALFWEVSAQ

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10309 10310	40677 40678	A A	10370 10371	1 1	444 3799	MNRQLSKEDIQMANKHEKML NITNDQGNANQNHNAIQPYSC KNGHNRRKIDVSMNMVNRHFY TAVHKASDLSFKPTSEKDLDTK LQANFPNLVKAPDKARICFCGK PYQPYVQGSPPSPEIVEENESQ LLHFLCVGSSKEIDLGNPKGS QHTGLGHSMGKCNFYFLLPILLV HGWSHLHPCVASMKVAGTQ RTQDQDEAQEKEKRDKRKAEA LVAALQTYKTQNPQGAPANCY KCGKLGHFKKDCCHSSKRKPL
10311	40679	A	10372	1	990	MTQKKNQTEQKEQKNEQKKQ HNERKEHKKKQTEYKTHETNR PRKTERAEHQKRENEGKRR RHKKRT/RERKKTNEETETRKQ REKPEQARQARKEKQKRQGE RQKEEKKRKNRNQENEEEEAN EQDRREQKEETRKRGPRKRRE HKEEEGRERERKKRKRKTEKG RRAQQKERREEEQQRRRRRR GKRKKNESEDEEDKASNHRQ QERERQKRKGAEARARRPAETG RRRRKRKRQKKA\AKQRQERQ GDGVLPAPWTAHPQPSQCW SARAPGGSahrPRRYLLTGQA NGSLAMWDLTTAIGRPRPGPCR WPDGARADGTAGTL
10312	40680	A	10373	99	1365	KEAEGRALARLLGPSEERFAAH EGMRPMRAVFTRQGHIITGFT RMSQRELGLWDPNNFEPPVAL QEMDTSNGVLLPFYDPDSSIVY LCGKVLTAGQGEQGTGWRGQ GPCPGAPLNRLLIQDSSIRYFEI TDEPPFVHYLNTFSSKEPQGM GFMPKRGLDVSKCEIARFYKLH ERKCEPIIMTVAPRKVRAWDRD LGRRSDAVPRIRQGPEPALEAD EWLSGQGRRNPCFSLRIDGYC CPPTHRD/LRVTKRNLIDVRPPS GPRRKPSRPATPPCRSSTPLETL LEEIKPLRERVQAQEQRITALEN MLCELVDGPHYPRAPGRASGL PTDPFGGAVRRACVPVPPPLVPL ARAVRTLPLRYASSIAALVERM KAHMWAKGHLTRDATAKRCS PMAQTITTHQLHVPCDREDESR WNYICSS

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10313	40681	A	10374	1	361	MINPNPERSDDL VFWGLFRAG GMWSAIIAPVMILLVGILLPLGL FPGDALSYERVLAFQSFGRV FLFLMIVLPLWGLHRMHAM HDLKIHVPAGKWV\FYGLAAIL TVVTLLIGVVTI
10314	40682	B	10375	70	256	
10315	40683	A	10376	224	414	LWRSLPAFQSGNLSVPAALM NRANARGEAVCVLGRSSRFLA H*LALGRSAAASGSSLKGG
10316	40684	A	10377	439	595	RAISCCPSHLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLE SGQ*AQRN
10317	40685	A	10378	1	391	FSSGTVPGDRPDEFIGDTLME RRNRRTGRTEKARIWETANTL AITMLMSTVAMPAAAADGVTF VPVTPHTFRHSYAMHMLYAGI PLKGLQSLMGHKCIRSTGRLPQ RFLGLEWGLPGHPGGRLLAMAE
10318	40686	A	10379	278	694	GHRSPALAGCPTIQNGAGPQC AAITRVRAARWCGYPGSGIPTI PEDSFMLYPRALTTHQTGFSPA WGKPSVDRLLATLSGPGGEGQ YSCCPSHLVKKKTTLAPNTQTA SPRALADSLMQLARQVSRLESG Q*AQRN
10319	40687	A	10380	2	371	SVQVFIRDKLMERRNRRTGRTE KARIWEVTDRTVRTCDCGGGL PAAAADGVTFECSAPPNIRFR/H SYAMHMLYAR*YPLKGLLSPI G/HKCIRSTGRLPQRFLGLEWG LPGHPGGRLLAMAEV
10320	40688	A	10381	276	508	
10321	40689	A	10382	464	763	
10322	40690	A	10383	1	715	MQHLSHGSRRLISENFRGCQ DQAVSQTLTRPPLVSKEASFF LLPFDLHVLGLPPAFNLSDQT LQFKSLTLVTSVRVPLEVARG LSMLGLLRFMSSLLAVGDMGQ GDQVEFQDTKGNSEGRASSQPP MTPLTPTRVRRCPGPTWGAK AEGVGRAEAAADPGSEGDDVV LSRTGLLLAGLLHYFRGRHLE EIMYNENTRRSQLMLFDKFRS VLVVTTHEDPVIAVFQALLP
10323	40691	B	10384	72	195	
10324	40692	A	10385	1	2331	

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10325	40693	A	10386	1	706	MTTSRSDTRSQDDPSAHLASPK LPQRLPKDLSEAQVERLLQAPLI DQPLELRDKAMLEVLVYATGRLR VSELVGLTMSDLSLRQGVVRLV GKGNKERLVPLGEEAVHWLET YLEHGRPWLLNGVPINVLFFPSQ RAQQITRQALWRRINHYDELA GIDSEKLSPHVVRHAFATYFAG SGGCIADFCGGSCAGSAAESC LWFAGTGLYLHHAWSGVWS RECSGAAWRDRDVGGGGE
10326	40694	A	10387	39	209	EPGTYVYNETDKSHSPCRPCVL LS**GIYLGVSVR*NGITYGALL AHIPNKFQVDY
10327	40695	A	10388	2	930	AWTHAGILLKHKYSFLVGCASI SDVIAQVVFVAILLHSHLECRE PLLIPNLSLYMGALVRCITLCL GYYKNIHDIIPDRSGPELWGDA TIRKMLSFWWPLALILATQRI RPVNLVFSRHLGGSSAATEAV AHLTATYPVVMHPYGLTEIR AVYPAFDKNNPSNKLVSNTV TAAHIKKFTFVCMALSLTLCFV MFWDTRV*GKSLIDHSGSLW PLQELCVVPLWIFSFPPVPTV RAHLTGWMLTLKKTFLAPSS VLRIVLIASLVVLPYLVGHG ATLGVGFLLVAGFCGENSTMG
10328	40696	A	10389	1	1389	GDATIRKMLSFWWPLALILATQ RISRPVNLVFSRDLGGSSAATE AVAILTATYPVGHMPYGLTEI RAVYPAFDKNNPSNKLVSNTV VTAHHIKKFTFVCMALSLTLKD SVQKPDISLTGRLVQTLPTMR HQRGESKDAPLASWLEPSTS SEASQTSSKLTINSQGEKAKQ KLECGTSLIVLRSECKNQERIK AEKRNRSWTTLCGLGAWRPLL FELPVIVQTPDQTNRFQFRYP KTQSGLCSEFFHFDLLTLEAFV KVWFPGLLILIEYASSKNRKS KMLQNLKLLSADMTLKLFCFV FWTPNVSEKILIDII.GVDFAE LCVPLRIFSFPPVPTVRAHLT GIFLMTLNYTFVLPASSVLRIV PHRPASWVLPYLVGHGATLGV GSLLAGFVGESTMVA/LATCY VYRKQKKMENESATEGEIDS AMTDMPPTTEVTDIVEMREEN

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10329	40697	A	10390	57	556	TGRCTCHDRHYWSPVERIAY NVEAARVVEQRTDLDKLVIE TNGTIDPEEAIRRAATILAEQLE AFVDLRDVRQPEVKEEKPEFDP ILLRPVDDLELTVRSANCLKAE AIHYIGDLVQRIEVELLKTPNL GKKSLTEKDVLASRGLSLGMR LENWPPASIADE
10330	40698	A	10391	536	787	GRD*PDYAENAHVMPVVED ASDMLLAITQAGRMLMFPVSD LPQLSKGKGNKIINIPSAEARG EDGLAQLYVLPQSTLTIH
10331	40699	B	10392	868	900	
10332	40700	A	10393	1	278	MNPQEANYAYLRG/EVELVRLP DAEGRIAAE/GALPYPPGVLALE EGI/NLLPGFAPELQGVYIEE/HD GSGIIMLPTKLAEVGTI
10333	40701	A	10394	1	811	
10334	40702	A	10395	1	682	
10335	40703	A	10396	442	546	
10336	40704	C	10397	1	1776	
10337	40705	A	10398	2	1354	YFSPAAMKALDLLIKWTRSDQ NLGGCNTGLIRPISPIVLIYKLVI GEQMIDVLGPEKRRRTTQEKI AIVQQSFEPGMTVSLVARQH VAASQLFLWRKQYQEGSLTAV AAGEQVVPASELAAAMKQIKE LQRLLGKKTMENELKEAVEY GRAKKWIAHAPLLPGDGDCTS FSDEPMTGWMAAAVVTLMIR MCFSVYTMLESCQRMVIVGY GRRIPDRQNLMIGGSKP/SIFRQF C/PDFEHLQEPYE/LLWE/MYGN RGYQLVLSFMQKFIDQSIFANT QYDPSRFFPSGKVPPIQLKDLL TAYKFGVKTLYYQNTRDGAED AQDDLVPISIQDDGCEGACILIR RASVASGSGCRMQRERLILATA RICRPDKTRQRRIRHRMRKMP YPALNSQQDTLMAYTTFSQTK NDQLKEPMFFGQPVNVARYDQ QKYDIFEKLEKQLFFLLASGRS
10338	40706	C	10399	1	1269	

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10339	40707	A	10400	1	1909	MGFHHVQAQAGFELLISSDLPAL ASQTARITAREARAPVEENKKA QLERDKQLSEQQQAALAKE KAQVKQLIEMNRITIANGDIGF NFTDGNLIKKIFVDKLTQAQLIN GRLAIARLLVDNNSEGEYAIIPA SVADKIAQRDASSIVLHLSA EEQDEDDPYADFKVPDDLMMWP TVYGRSVDRIIRSRRIQRSCAM PDATLCASYQAYGLRAKHPSFS SQGVPHCVDPVTLKIASEAPSI VGGTLPVPMTSQLPSVTSMQLL LDLDTIPNEPLHYDWEALRESI KTHGLRNSTLSALMPSETSSQIS NATNGIEPPRGYVSIAKSKDGIL RQVVPDYEHLHDAAYELLWEMP GNDGYLQLVGIMQKFIDQISIA NTNYDPSRFPSGKVPMMQQLK DLTLAYKFGVKTLYYQNTDRG AEDAQDDLVPISIQDDG/CESGA CLIRRASVASGSGCRMQRERLI RPTARICRPDKTRQRRIRHRMR RVLPRGATRRDRFSLAEGYQW LPGRGLVIEPQAQVMYQGVQQ DDCTAASRARVVSQSGDDIQTR LGLHSEWRTAVHVIPTLDLNDY HDPHSTEIEEDGSTISDDAVKQR GEIKVGVGTGNISQVSLRGSVA WQKGSDDFAQTAGFLSMTVK
10340	40708	B	10401	1	1329	
10341	40709	A	10402	1419	1788	ALTSVLPRPSVHW*SPKPRNVD WHIGRGVAIIMQKSGIPDIDQA NCMIKLESDDGTFFIVHSGGADIG TGLDVTVTKLAAEVLHCPPQD VHVISGDDTHALFDKGAYASS GTCSFGNAARLAAEN
10342	40710	A	10403	73	477	SMFPRIPFGY/WHI/GSRVAIIQ K/SGIPDIDQSNLHDQLESHGTFI VHSG/GFDYGTGLDTV/VLTKL AAEV/LHCPPQDVHVISGDDTH/ ALFDKGAYASSGTCSFG/NAAR LAAVNPRALAYSYGGGGARV CIWGGWGRR

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10343	40711	A	10404	I	756	MSIAYQEIPQNERLRLSDSSITS VVEYLLAVVARSVYTSDDMAIF REHHSYMSLSMAACRKIRPCQ ELPRSHIPMISAMWSQSPDHV VQHEREQQSGFGDGTESHSTSD SNTVEVRQNCSPPIGGVRNHRAL RGHQPAELEPENILKLLLMVAE RKAHKGWYYSGDLCRMDEAG YIKITGRKKDIIVRGGENISSREV EDILLQHPKIPNA\CMGAMSD RLGERSCAYYVLKAPHHSLSL EEVLCWRGC
10344	40712	A	10405	252	1245	GSRLPGASITRSLEFIAGQAVK FNPLLPVSLVKRNTTLAPTHTT ASPRALADSLMQLARQVSRLD SGQRSVVFVRWSRRSIIVDSHA GLITTTQRALGQSDMYRGSLPISE LRHIGPRHLRGVLRVVRCLPFSE PMLVECNPLLPSSLIIEPSLEPT LRFASRIALPDSTVLQIFSGVLP LSSGQAYIQFTYSETPRSTPREA NSAHILSVHQWKCQHIVMAAR VKVGYPQWTPISLSAGLSAVLY KPVERGGRCSHSCSTALSPQGF LSSLLRFISEGVFKSFTDKQMLR DFVTTTRPALIVLLWQPLNVEGT SSTSHCIIMPTCNDHRD
10345	40713	A	10406	269	432	
10346	40714	A	10407	332	933	RVSRGRKVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSV HINPYLIPFFIGLQNRFTQFRLSE TKEITNPYAMRLYESLCQYRKRP DGSQIVSLKIDWIIERYQLPQSY QRMPDFRRRLQDFRLLGQTS VDRLLQLSQGQAVKGNQLLPV SLVKKRKTTLAPNTQTASPRAL ADSLMQLARQVSRLESQQAQ
10347	40715	A	10408	I	531	MRWKIDLARISKEIIDFYITQGV NRIGFIAGEDEPGKADIREVAFA EYGRLKQVVREEDIWRGGFSSS SGYELAKQILARKDYPKPLFV ASDSIAIGVLRAIHERGLNIPQDI SLISVNDIPTARFSFPLSTVRIH SEMMGSGQVNLVYEKAPDGR ALPLLVFVPSKCLKRGTTTR
10348	40716	A	10409	I	1059	
10349	40717	A	10410	2187	2429	

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10350	40718	A	10411	1	835	MRPFGDYPDGGIDDLKISFSVP AAGVGPHFDQYDVFIHQGTERR RWRVGEKLQMKQHCPHDDL QVDPFEAIIDELEPGDILYPPG FPHEGYALENAMNYSVGFRAP NTRELISGLPDYVLQRELGGNY YSDPDVPPRAHPADVLPQEMD KLREMMMLAELSTHPDPFKQWLG EFISQSRHDLDIAPPDPYPQDE FSDALNQGKVLGALGGLRVL MGDAVYPNGEKMDSPRPALD ALASTIALTAKNFGDALEDPSF LAMLAAALVNSGYWFFEG
10351	40719	A	10412	249	474	VYLLIVLAVLYTNRRQTESQIM SELPFTIASKRIKYLGIQIATRDV KDLFKDNYIPLKEI*EDTSKW KSIPCSWI
10352	40720	A	10413	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELIPFDPAIPLL
10353	40721	A	10414	342	528	
10354	40722	B	10415	32	587	
10355	40723	A	10416	1	2141	
10356	40724	A	10417	1	748	
10357	40725	A	10418	321	411	RNRDRYKQWKQDFFHDSYNR QRGCGRWLYRRHHR*CRRYRR QQPHLCRLYES*KKSCFHCYLR SRF/RLRVKYPRDMYSLGTFL RSPVAIRIPLSRNQVQR
10358	40726	A	10419	1	2235	

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10359	40727	A	10420	1	1884	MGKDFMTKTPKAMATKAKID KWDVILKKSFACTAKETTIRVNR INKIDKPLARLIKREKNQIDT IKNDKGDITDPTIEQTIREYY KHLTYNKLLENLQEMDKFLDTY TLPRLNQEEVETLNRPTGSEIV AIMNSLPTKKSPGPDGFTAEIF QRYKEELMILPK/PGQDTTKKE NFRPISLMNIDAKILNKILAKRI QQHIKKLIHHDQGVFPGMQG WFNIRKSINVIQHINRAKDKNH MTISIDAEKAFDKIQPFMLKTL NKLGDGTYYKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTTRQGCPL SPLLFINIVLEVLAIRIQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPTVSAQNLLKLISNFSKVSQ YKINVQKSQAFLYTNKRQTESQ IMSELPFTIASKRIKYLGIQLPRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VTYRFNAIPKLPMTFFTELEKT TLKFIWNQKRARIASII.SQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIT PHIYNILIFDKPEKNQWGWKDS LFNKWCWENWLAICRKLKLDLP FLPTYTKINSRWIKDLNVRPKTI
10360	40728	A	10421	1	822	
10361	40729	A	10422	2738	2949	
10362	40730	A	10423	1	1134	
10363	40731	A	10424	1	2118	
10364	40732	A	10425	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH**VIFL WSRRIHTASCLPSQRSITGHVH HQ
10365	40733	A	10426	2	1624	
10366	40734	B	10427	1	3690	
10367	40735	A	10428	1	1056	
10368	40736	B	10429	1	2265	
10369	40737	A	10430	1	2037	
10370	40738	A	10431	1	2406	
10371	40739	B	10432	670	2568	
10372	40740	A	10433	3	4072	
10373	40741	A	10434	1	3171	
10374	40742	A	10435	1	1542	
10375	40743	A	10436	1	1008	
10376	40744	A	10437	1	2241	
10377	40745	B	10438	1	2682	

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10378	40746	A	10439	644	949	MRKPTLGRTYSPRPSPAAARG ASRAALGPGHGLETRKSAPCTI MFRICAGCCWLP CGTPTS VLT KRWH*P*VIFLWSRRHTASCLP SQRSITGHVHHQ
10379	40747	A	10440	1	1088	MARKDIQVLIIGTYEYLVKGE KVLTLAIKLVKWSGYPGLC LPEYHLGEVEGEDDM EVTAMD GRCLLEVKG SERLQVADQECV GDGSGRLCPDRCECEQRLQLV RPGLCNPRAIALTTKPQSPSPNI KRLVIGE QMIDVLGP EKR RRT TQEKIAIVQSFEPGMTVSLVA RQHGVAA SQEGLTAVDAGEQ VVPASELAAMKQIKELQRL GKKT MENELKEAVEYGRAKK WIAHAPLLPGDGERTDDWMDG RRSRHTDDTDVL*SASWRQQV QRQE QPVLRRRQ*DFLLGWL LHHVAGQRGRSSPVQSSAEQL RSFPVWYAVCVSPALRHQSSVL
10380	40748	A	10441	1	2781	MGKKONRKTGNSKKQSASPPP KERSSSPATEQSWMENDFDEM REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRINTKCL KELMELKTKARELREECRLRS RCDQLEERVSVMEDEMNEMN DGENGTKLENTLQDIQENFPN LARQANVQIEIQRTPQRYSSR RATPRHIIVRFTKVEMKEKMLR AAREKDFKPTKIKREKEGHYIM VKGSIQQEELTKIYAPNTGAP RFTKQVLSDLQRDL
10381	40749	A	10442	1	2445	
10382	40750	A	10443	1	1428	
10383	40751	A	10444	1	2478	

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10384	40752	A	10445	1	1746	METQKTLQKINESRSWFEKIN KIDRPLARLIKKKREKNQIDTIK NDKGDITTDPTIEIQTIREYYKH LYANKLENLEEMDKFLDITYTL PRLNQEEAESLNKPTGPEIEAII NSLPTKKIPGPDGFTAIFYQRY KEELQHIIKKLIHHDQVGFIPGM QGWFNIHKLINVIQYINRTKDK NHMIIISDAEKASDKIQPFMLK TLNKLGDGTYLKIIIRAIYDKPT ANIILNGQKLEAFPLKTGTRQG CLLSPLLFNIVLEVLAIRQEK EKKCIRLGKEEVKLSLFADDMI VYLENPIVSAQNLLKLSNFSKV SGYKINVQKSQAFLYTNNRQIE SQIMSELPFTIASKRIQYLGQILT RDVKDLFKENYKPLLEIKEEDT NKWKNI PCSWIGRJNIMK MAM LPKVIYRFDAIPKLPMTFFTELE KTTLKFIWNQKRARIKASILSQ KNKAGGITLPDFKLYYKAIVTK TAWYWYQKRDVDQWNRIEPS ETIPHICNHLIFDKPKDNKQWG KDSLFNKWCWEIWLAIGRKRK LDPFLTPYTKINSRWIKDFNIRP KTIKTEESLGIIQDISMGKKFTS
10385	40753	A	10446	2	541	
10386	40754	B	10447	1	1533	
10387	40755	A	10448	753	1468	LVTYSYLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R/WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVK EILLPLL VSITVSLRVKYPRDMYSCLGTF LRSPVAIRIPLSRNQVKR
10388	40756	A	10449	753	1468	LVTYSYLLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVVRRPK R/WCKPVQVSATFTVIADNNLY RQNSFVYSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVIRVVK EILLPLL VSITVSLRVKYPRDMYSCLGTF LRSPVAIRIPLSRNQVKR

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10389	40757	A	10450	753	1468	LVTSYSLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVRVRPK RWCKPVQVSATFTVIADNNLY RQNSFVVSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVRVVKIILLPLL VSITVSLRVKYPMDMYSLGTF LRSPVAIRIPLSRNQVKR
10390	40758	A	10451	753	1468	LVTSYSLPRHPDRGRGYHFD MGVWIKN*IKPMS*REQL*PWL PLKRSLICFLSAHFWLVRVRPK RWCKPVQVSATFTVIADNNLY RQNSFVVSFTECTNDG*LAITSF CRDQAVRLVNEVFTGCCREICT /CATGYARRYGIDRSVLQSRPIH SQKK*NRSSLYSSGK*L*PALQC WWF/CTTSLPVRVVKIILLPLL VSITVSLRVKYPMDMYSLGTF LRSPVAIRIPLSRNQVKR
10391	40759	B	10452	1	2259	
10392	40760	B	10453	1	684	
10393	40761	A	10454	1	1419	
10394	40762	B	10455	1	462	
10395	40763	B	10456	1	915	
10396	40764	B	10457	1	1659	
10397	40765	A	10458	1	1659	
10398	40766	A	10459	1	1224	MIVYLENPIVSAQNLLKLISNFS KVSGYKINVQKSQAFLYTNNR QTESQIMSELPFTIASRKIKYPGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNI PCSWVERINIVKM AHLPKTAKNGPVLPLHSEEKIP FNFH*LFR*TITATKA*QKRR* MCQNLMTHQNRQSRGRSQYF* RRKNISDRSAVYR*QQLYIRR QPYAERPSHVEDKGHKYLVFE ANTGTENG YQGEESLFNKAYY GGGTNFFCKESQKLQSSAKKR DAELANGALGIIELNNDYTLKK VMKPLITSNTVTDEIERANVFK MNGKWYLF TDSRGSKMTIDGI LPISDPTIKQDFRLLGGQTSVDRL LQLSQGQAVKGNQLLPVSLVK RKTTLPNTQTASPRALADSLM QLARQVSRLESGQ

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10399	40767	A	10460	1	2241	MEDEMNMKQEEKFREKRIKR NEQTLQEIWDYVKRPNLHLIGV PESDGENGTKLENTLQDIIQENF PNLARQANVQIQEIQRMPQRY SRRATPRHIIVRFTK VEMKEKM LRAAREKDRSMRQKV NKTQE LNSALHQADLIDIRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEIITNYLSDHSAIKLE LRKLNLTQNRSTTWKLNLLN DYVWHNKMKAIEKMPFETNEN KDTTYQNLWDAFKA/EIQITIK EYYKHLYANKLENLEEMDKFL DTYTLPRLNQEEVESLNRPIGT AEIVAIINSLPTKSPGPDGFTA EFYQRYKEELVPFLKLFQSIK QGILPNSFYEASTLIPKGRDIT EKENFRPISLMNIDAKILNKILA KRIOQHKKLIHHDQVGFIPGM QGWFNHKSINVIQHINRAKDK NHMIISIDA EKA FDKIQQRFML KTLNKLIGDGTYYKIIRAIYDKP TANIILNGQKLEAIPLKAGTRQG CPLSPLLFNIVLEVLARVIRQEK EIKGIQLGKEEVKLSLFADDMI VYLENPIVTAQNLLKLSNFSKV SGYKINVQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWVGRINIMKMAIL PKVIYRFNAIPKLPMTFFTELE KTKFIWNQKSAHITKGLSQKN
10400	40768	B	10461	1	1254	
10401	40769	A	10462	551	868	SIQHWSRISSLRVYRSKAVAAA LLPMNCSLWSTQAGFLPRFG*R *TRHLSTIEPEDYNLLFRRVSLK LSVWLPTWQSKSNGWSQKCL WMHLKFDLSNALLPPTGF
10402	40770	A	10463	1	2985	MEDEMNMKREGKFREKRIKR NEQSLQEIWDYVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIQEIQRTPQRY SRRATPRHIIVRFTK VEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFFTICDDAEDLQSPSTA GPWFGVLYTKGGPYQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPNQCH IGEVLLDGFTA EYFRRYKEELV PFLKLFQSIKEG
10403	40771	B	10464	1	2277	

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10404	40772	A	10465	1	1064	
10405	40773	B	10466	1	1827	
10406	40774	A	10467	1186	1208	ATKMVRLSVAALVQRMKEFCA AKFPAVITCWWSVWAQSA*WR *CWRKTKI
10407	40775	B	10468	1	1992	
10408	40776	A	10469	1488	1920	RVRVTAVITERDCVSRSRWTAV IVRHCTGRSLPAASTVKQYRTS CWERWN/CRFGNDLPSPVVEWL TDN/EFMLPG**NTPVRPDVGLE PT*TRACQESRCN/RLTPGIVL EIIGVWMQQRWSLECRLAIPCIG WLPRVVGEESGA
10409	40777	A	10470	1	1659	
10410	40778	A	10471	1	987	
10411	40779	A	10472	1	1278	
10412	40780	B	10473	1	1556	
10413	40781	A	10474	1	1905	
10414	40782	A	10475	644	949	MRKPTLGRTPSRPPSPAAARG ASRAALGPGHGLETRKSA PCTI MFRICAGCCWLPCGTPTSVLT KRWH*P*VFLWSRRIHTASCLP SQRSITGHVVHQ
10415	40783	A	10476	1	1217	
10416	40784	A	10477	83	1134	
10417	40785	A	10478	2450	2607	

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10418	40786	A	10479	1	2604	MPLRAFNPVSSFRWARGMTIV AALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVF GILHALAQAFVTGPATKRFGEK QAIHAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPAL QAMLSRQVDDDHQGLQGSL AALTSLSIIGPLIVTAIYAASAS TWNNGRACSSSVTRIVSILSRFI GIITPMNRNPPYTEASVTKQEK TALNMAFRIRSQTLTLEKLNE LDADEQADICESLHDHADELRYR SCLARFGDDGNSYDHDYAKLA CLQVEGRGGGTFAHELLAVEY AGWISPAFRLKVNQTFIDYRTG RLQPAIPQSLPEALRLAADLAE QKQRLEQKMLMDAPKVEFAER VATASGVLIGNYAKVGLGLGQN YLFTWLRDNGILI/CNR* TQERP QTRIHISWVFH/LLKKP*SIQAM EAG/LSFTTRITGKGQQWLMKR LLDARNRDRYKQWKQDFFIDS YNRQSAGHILSQCANLAATTSE YFIHKPHRLIAAETGYSQSTVV RAFREA VNKGILSVEIVGDHRE RRANLYRFTPSFLAFAAQAKNA LIESKLKISSAATKVAVLAKTL ALFNFLSTPPCQNDTPSPCQDD VAJKNKKSQVKKTKRSVSGGA GTTSKKLTSWIAKAKAKADN LRLSKKRTQKHEFKQKVEAAA RKYAYLKNKRSPDIGISNFDN
10419	40787	A	10480	1	2559	

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10420	40788	A	10481	1	1676	MLNGEKLAVKQEALLAAISEK DANIALLELSSSKKKTQEEVAA LKREKDLVQQLKQVVEGRGG GTFABELLAVEYAGWISPAFRL KVNQTFIDYRTGRQLQPAIPQSLP EALRLAADLAEQKQRLEQKML MDAPKVEFAERVATASGVLI NYAKVLGLGQNYLFTWLRDN GILIATGERRNVPKQEYISRGYF TLKETVIDTSNGSRISFTTRITGK GQQWLMKRLLDADVVRTTSIV MLAKVTFSLCITMSDFTFSGYE LACFVTHSGLSRSSAGHILSQCA NLAATTSEYFIHKPHRLIAAETG YSQSTVVRAFREAVNKGILSVE IVIGDHRERRANLYRFTPSFLAF AQQAKNALIESKLLKISSAATKV KAVLAKTLALFNFLSTPPCQND TPSPCQDDVAIKNKKSQVKKTK RSVSGGAGTSLKLLTSWIAKA KAKADNLRSLKKRTQKHEFKQ KVEAAARKYAYLKNKRSPDIG GISNFDNLPHCMTVNEALNAVL AKNKDNEQWGAAGAYIADIT DGEDRARHFGLMSSACFGVGM VAGPVAGLLGAISLHAPFLAA AVLNLNLLGCFMLQESHKG ERRGELLKIVVLPGDHVGQEIT AEAIVLKAISDVRSNVKDFE NHLIGGAAIDLQGGGGKPRCVS KSLMLH/CWHSRCLPRWR*QR VQRJRL*VHP*AFFAPAVAFALP
10421	40789	A	10482	1	3213	
10422	40790	A	10483	1089	1373	
10423	40791	A	10484	2720	2968	TTTLVRLPCRSPPKRIKALRSQ RRKSILKPLS*SR*STTK*RNTP CSQVSSLRLSTRYRRRMKHSV NLVWTWVPYSSAP
10424	40792	A	10485	2	2264	
10425	40793	A	10486	1693	1980	
10426	40794	A	10487	1776	2026	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRIHTASCLPSQRRSSNRACSS SVTRIVSILSRFIGI
10427	40795	A	10488	1323	2064	
10428	40796	A	10489	53	243	WTVPLGAVPPVRMHEGLGCW CKLNGEVCMSGMCLLCWWD D*RHDLKANLDRMLNVCQDGR KR
10429	40797	A	10490	1	3117	
10430	40798	A	10491	1	1227	

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10431	40799	B	10492	1	2119	
10432	40800	A	10493	938	1147	SLETRKSAPCTIMFRICIAGCCW LPCGTPTSVLTKRWH*P*VIFL WSRRHTASCLPSQRSITGVHH HQ
10433	40801	A	10494	1	2822	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MEDFNTPLSTLDRSTRQKVNK NTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAYKRKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEIETQ
10434	40802	A	10495	2	163	
10435	40803	A	10496	4051	4355	MRKPTLGRTPSRPPSPAAARG ASKAALGPGHGLETRKSAPCTI MFRICIAGCCWLPCGTPTSVL TKRWH*P*VIFLWSRRHTASCLP SQRSITGVHHHQ
10436	40804	B	10497	1692	1781	
10437	40805	B	10498	1	3477	
10438	40806	A	10499	179	439	KKELVNLTTD*SLENR/WIDVL GPEKRRRTTQEKIAIVQSF/G TGDDGLPRCPATWCSSQPVISL A*AIPGRKSYCCRRRTTGCSCS
10439	40807	A	10500	1	7456	MYQANGKQKKAGVAILVSDKT DFKPTKIKRDKEGHIYIMVKGI QQEELTILNIYAPNTGAPTFIQ VLSDLQRDLDSHTLIIGDFNTPL STSDRSTRQKVNKDTQELNSAL HQADLIDYRTLHPKSTEYTFSS APHHTYSKIDHILGSKALLSKC KRTEIITNYLSDHSAIKLELMIK NLTQNHSTIWKLNLLNDYV VHKEMKAEIKMFFETNENKDT TYQNLWDTFKAVCRGKFIALN AHKRKQERSKIDT
10440	40808	A	10501	2476	2718	WPLRGRGGHRAAPGRHLHLQ RLLLRLHLTACLLQDALDG/GP PRCWRGSCRWCSAGPPRSWA RRPSATRSPSPWPALECS

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10441	40809	A	10502	2	4517	HRLANWIKSQDPSVCYIPETHL TCRDTHRLKIGWRKIYQANG KQKQAGVAIHISDKTDFKPTKI KRDKEGHYIMVKGSIQQEKLTI LNVYAPNTGAPRFIMQVLSDLQ RDLDSHTLIMGDFNTPLSLDR LTRQKVNKDTQELNSALHQVD LIDIYRTLQPKSTEYTLFSAPHH TYSKIDHILGSKALI.SKCKRTEII TNYLSDHSAIKLELRIKKTQIR STAWKLNLLNDYWVHNEM KAEIKMFFKNNEN
10442	40810	B	10503	88	501	
10443	40811	A	10504	1	971	MWALFMIRNVKKQRPVNLDLQ TIRFPITAIASILHRVSGVITFVA VGILLWLEYRLSYLKGSSKLR DYGQLLTLEIPAALLPIHTGIVN QNINCTETLTASSDNLLRRAFC GDTHLHEVHLNTLFFNHFLCFA VIFDETRNKDICATSGQHAHFV DKKRKRELLSHMIGKGNWQQV LVFTRTKHGАНHLAEQLNKDG IRSAAIHGNKSQGARTRALADF KSGDIRVLVATDIAA/RGLDIEE LPHVVNYELPNVPEDYVHRIGR TGRAAATGEALSLVRSFFDWC DDCAAAGGMGNRNAQLADGI YHLRCIELYLGDMADFL

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10444	40812	A	10505	1	2201	MSFDSLGLSPDILRAVAEQGYR EPTPIQQQAIPAVLEGRDLMA AQGTGKTAGFTLLQLHITR QPHAKGRRPVRALILTPRELA AQIGENVRDYSKYLNIRSLVVF GGVSINPQMMKLARGVDVLV ATPGRLLDLEHQNAVKLDQVEI LVLDEADRM LDMGIHDIRRVL TKLPAKRQNLFSATFSDDIKA LAELLLHNPLEIEVARNTASD QVTQHVHFVDKKRRELLSHM IGKGNWQQVLVVFTRTKHGAN HLAEQLNKDGIRRAAKHGKNC KCAYSKFQKPSPHIFTMLIGVC GVNQSAITNVSNVSNMAKISGS GSHRLTKRVIKRDMPINHPV AYSRRRLQTELLFWHARWLN HTRRQRFRIKEGDNNGQCFLW TGRFNFNLPSFGRIQHQQRNNA VGFSLGAFVITFIAGRACMPSLF VISTVCLTMVYVFPAYDGV GRFYRASGSSLPVALQYTPNGA SRRYINQWRPSRMLSSKKQKW RKGMSESLHLTRNGSILEITLDR PKANAIADAKTSFEMGEVFLNFR DDPQLRVAITGAGEKFSGAGW DLKAAAEAGEAPDADFPGGGFA GLTEIFNLDPVIAAVNGYAFG GGFELALAADFIVCADNASFAL PEAKLGIVPDSGGVLRPKILPP AIVNEMVMTGRRMGAEALR WGVNVRVVSQAELMDNARELA
10445	40813	A	10506	1	168	MCEKNLAYAHKVKAALEKGA SPGDFPREDYETNWGEGRFTLA DLNIHGKRALGMDV
10446	40814	C	10507	1	3861	
10447	40815	A	10508	1	7407	
10448	40816	A	10509	290	661	QPLPEGRW/THLWHNDEL DGS RWHK/QQHGLSLPVYVRDNT LRALGNNDQRPDYVWHE/GTA FHLFNLKAARTGNTITADASE ANNWTLCLRNQVKNGLQDG SQAESQGLVVKPQGNALTITL
10449	40817	A	10510	3	510	KFHFMSPFPAHSMVQALE*LYA LGLGDKDCRLTEPLGMRIAEFP LNPMPFAKMLLESGNFCSQEIL SIAAMMQIQNIFVVPNHKSHAI RVHRKFAVEEGDHLTMLNIYE AFIKHNKDSKWCQEHFLNYKG LVRAATVREQLKKLLVKFQVP RKSEGD PDLVLRICVS

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10450	40818	A	10511	1	1920	MIWGRAWWLTPVIPALWAAK VAGRVAEERGAVLGHEVG YCI RFDDCCTDQLATRIKRLTESFSLI LSVIMLDEAHERTLYTDIAIGLL KKIQKKRGDLRLIVASATLDAD EEVETVVSMLIEQARALARIG MKRHLRLVPMYAGLPSFEQMK VFERVSRSVRKVIVATNVAETSI TISGIVYVIDCGFVKLRAYNPRT AIECLVVVPVSQASANQRAGR GGRSRSGKCYRLYTEEAFDKLP QSTVPEMQRSNAPVILQLKAL GIDNVLRHFHMSPPPAQSMVQA LELLYALGSLDKDCRLTEPLG MRIAEFPLNPMFAKMLLESGNF GCSQEILSIAAMMQIQNIFVVP NQKSHAIRVHRKFVVEGDHL TMLNIYEAFIKVSTTTARSAAT HHPLEHNKDSKWCQEHFLNYK GLVRAATVREQLKLLVKFQV PRKSSEGDPDLVLRICIVSGFFA NAARFHTSGAYRTIRDDHELHI HPASVLYAEKPPRWVIYNELL QTSKYVMRDVTAIESAWAVGS WLHTFYSTRERTCSLESQKGPR SRDPLRREPTVYSCRDWCWRPLL HAAAPGPRWGELAPAPVECLV ALKWAAACSLVLSRRCPQHLH PCWDPGGLCAWAGILLCCSGQ SGSWLTQHAH
10451	40819	A	10512	3	414	
10452	40820	B	10513	62	1408	

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10453	40821	A	10514	1	1388	MGTSSIFLCVLFLCGALGLTMS PARGRRLRCYICGF TKPCHPVPT E CRDDEACGISIGTSGCRGIFQVP DQQRDSRSHFPADVTKITWAC GQSPPGFKPLFPSCSSPKTGQM DVLIDLDFGFELRNRGIWGE GA IRDTEEKSADNLEPCSSPPPLEE VICCEGNAGFYEVGCVSTPLEA GYSVLGWNHPGFAGSTGVFPF QNEANAMDVVVFQAIHRLFFH PQDIHIA/LAIGGFTATWAAMS YPDVSAMILDASDDL VPLALK VMPDSWRGLVTRTVRQHLN LN NAEQLCRYQGPVLLIRKTDQD NLTPVPMKDICSNRANCLLVKA LQHRYPGVM AE EGLLVARQW LEASSQLE EASIYSRWEVFED WCLSVLRISYQAEHGADFPW SVGEDMSADGRRLQALFLAR KHLHNFEATHCTPLPAQNFPRC PWHPGLTQLGLIMEEWGERRH
10454	40822	A	10515	1	1519	MGLFKPLLLASFPAQASW G VSSPDQVQGVKSGCLLPICFIS PADVEVPDGITAIWYYDYSGQR RVFMGNPEHRVCNLLKDLQP EDSGSYNFRFEISEVNRWSDVK GTLVTVTARSLSPGRHLETLH MAMSWQDHGRILRCQLSVAN HRAQSEIHLQVKYAPRGVKILL SPSGRNILPGEVLVTLTCQVNSSY PAVSSIKWLKDGVR LQTKTG V LHLPQAA WSDAGVYTCQAENG VGSLVSPPISLHIFMAEVQVSPA GPILENQVTLCNTPNEAPSD LRYSWYKNHVLL EDAHSHTLR LHLATRADTGFYFCEVQNVHG SERSGPVSVVNVHPPKTP TMM VFVEPEGGLRGILDCRV DSEPL ASLTLHLGSRLVASSQPQGAPA EPHIHVLASPNALRV DIALRPS DQGEYICASNVLGSA STSTYF GVRALHRL/LSVPA AALPGGTA/ VWASCSCCWA WGPATPGGTG YYLTGTYKSGGQTQMLSASLF
10455	40823	A	10516	3	615	
10456	40824	A	10517	373	631	SGGPDTDVVSIPYSCSRMHLCS *LCELLSFSWETLCRAVKENEL PKKE*RAPANQGPTGESSLGL SDSPLQPGGDGVEERRALLF

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10457	40825	A	10518	1	5521	MANRFRSGEDSGGAIWQDCVE EGASELGFLESLLYTQGNDRKQ CSLTNQGRQVFALLMLRKGHLL HVFVILFGPAGAPPQPLPSVEQ VPLSLVPGPKGVAVSRTPPFFH QVHDCPFQDPKWEEQGSWDKI AALAIAELTLTSPVARDTSDPQ CAQQAFLHGQASWGVSSPQD VQGVKGSCLLIPCIFSFPADVEV PDGITAIWYYDYSGQRQVVSHS ADPKLVEARFRGRTEFMGNPE HRVCNLLLKDLQPEDS
10458	40826	A	10519	1	1149	
10459	40827	A	10520	111	370	SHRRSLGEAARHPSFRPAGTAF E*VSQKVVHPRDLEDRSACVPV GCSLTRESFFRLNNQPHGTRFLP IPSNPESSRRVPSAHLTV
10460	40828	A	10521	1	220	
10461	40829	A	10522	654	967	
10462	40830	A	10523	2	1415	
10463	40831	A	10524	2	293	CGKAFTQHSRLIQH/QRMHGTGE KPYEYWEFGEKPRIYLQRKTFM KLDTTTGEQSYQRNQMEPCP YGEKPCCKECKGKSFR/SSLE RHQRAHTGEKP
10464	40832	A	10525	51	378	GDFSPOKPPMAPHGCLTYLAFQ KVKEGKKEKKEKKRKRKKEK KERKKERKKERKKRKRKEKK EVEGKEGRKEGRKEGRKEGRKE KKEISKKEIVAPTSNLNPKCSVL
10465	40833	A	10526	1	235	
10466	40834	A	10527	545	793	NKEMHWPCITGLCSHPWGFK DCSLLE*RLPGQQEQNSIERKK RKKEKKEKKEKRRKRKKGKKE ERKKERKYHFILLGMPTS
10467	40835	A	10528	127	376	
10468	40836	A	10529	3	710	EPG/NPERLK/GFSYPEFEDLDA LFSTLGLNEESVDSFDDYLP GVDSFGDKYQD/RNSDQYHD GCQDRFRDGSQDMGQCGGR D*DDD*GSRDYDRGYDSATGS CRRAFSGYLRDDY/WESSET EQQPPTGSEGVPPVQPSERP AKKDENKVDGMN/APKVQSGN SGRGPDGNGKDCWRESRDKD GKKDQVCRSAPESKKPEENPAS KFSSASKCAAHSVVDGEDEKEG

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10469	40837	A	10530	1	548	MQRSENDILGMDLRPLICIKDE KEEVGEKEEGEKEEEEECEEQEE EGGKEWEEPGNYHLGQSLSHD WQSSETEQQPPTGSEGKVPVPQ PSEERPAKDKENKVDGMN/APK VQSGNSGRGPGDGGNKDCWRE SDRKDGKKDQVCRSAPESSKKP EENPASKFSSASKCAA VSDGE DEKEGADYTK
10470	40838	C	10531	37	289	
10471	40839	A	10532	1	1062	
10472	40840	A	10533	1	1977	
10473	40841	A	10534	1	2050	LPLLHAGFNRRFMENSSIIACYN ELIQIEHGEVRSQFKLRACNSVF TALDHCHAEIETSDDHVIQYV NPAFERMMGYHKGELLGKELA DLPKSDKNRADLLDTINTCIKK GKEWQGVYYARRKSGDSIQQH VKITPVIGQGGKIRHFVSLKKLC CTTDNNKQIHKIHRDSDGNSQT EPHSFRYKNRRKESIDVKSISR GSDAPSLQNRYPSPMARIHSM IEAPITKVINIINAAQENSPVTVA EALDRVLEILRTTELYSPQLGTK DEDPHTSDLVGGLMTDGLRRL SGNEYVFTKNVHQSHSLAMP INHSMDEVPPCISQLLDNEESWD FNIFELEATHKRPLVYLGLKVF SRFGVCEFLNCSETTLRAWFQV IEANYHSSNAYHNSTHAADVL HATAFPLGKERVKGSLDQI.DE VAALIAATVHDVDHPGRTNSF UCNAGSELAVLYNDTAVLES HHTALAFQULTVKDTKCNIFKN ID/RGNHYRTLQAIIDMVLA MTKHFHEHVNKFVNSINKPMAA EIEGSDCECNPAKGNFENQILI KRMMIKCADVANPCRPLDLICIE WAGRISEYFAQTDEEKRQGLP VVMPVFDNRNCSIPKQISFIDY FITDMFDAWDAFAHLPALMQH LADNYKHWKTLDDLCKCKSLRL PSDRLPKPSHRGGLLTDKGHCES
10474	40842	A	10535	2	445	ERTFNCCYPGCHFTVHGMKD LDRHLRIHTGDKPHKCEFCDKC FSRKDNLTMHMRCHTSVKPHK CHLCDYAAVDSSSLKKHLRIHS DERPYKCQLCPYASRNSSQLTV HLRSHTGPGPADLLEHSRLHQ ADHPEKCCEPSYSCSSAA
10475	40843	A	10536	1	957	

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10476	40844	A	10537	1	1438	MSRRKQAKPQHLNSEEPRPARR ECAEVAPQVAGEPASELDDDV PKANCLSTESTDTPKAPVITLPS EAREQMATLGERTFNCCYPGC HFKTVHGMDLDRHLRIHTVP FCFSKVYWNGFQLGMISPPKGT MSGDIFDCYNWRRKGSTGCIW TGGGGTPICPGYHLGQIFVAILT KKPLTLTPYVFEGDKPHKCEFC DKCFSRKDNLTMHMRCHTSV KPHKCHLCDYAAVDSSSLKKH LRIHSDEPHYKQ\VCPIASRNS SQLTVHLRSHTA\GDTPPQCWL CSAKFKISSDLKRHMIVHSGEK PFKCEFCDVRCMTKANLKSIIIR IKHTFKCLHCAFQGRDRADLLE HSRA/LHQADHT\EKCEPCSYSC SSAAALRVHSRVHCKDRPFKC DFCSFDTKRPSSLAKHVDKVHR DEAKTENRAPLQKEGLREGSSQ HVAKIVTQRAFRCECTCGASFVR DDSLRCHKKQHSDOSEKQNL
10477	40845	A	10538	1	1427	MIAFDSMSHIQVMLMQEESTAP ATLEHILGHSQLCGSDGLAHAA VWVLAHLHYWFTGLSPGPM VLPLHPAIISSFFHLWRVAFISKA GKPRAGHLLKRFLRCQFQRA ASSLLFTTVEAMLGTESGTEKV MRGAGTWYHIIENWPSAECV WTEEYQQGRQEDSAEDRKLF VGMNLNQSEDDVRRLEAFG NIEECTILRGPDGNSKGAFAVK YSSHAEEQAALNALHGSQTM GASSSLVVKFADTDKERTMRR MQQMAGQMGMFNPMAPFGA YGAYAQALMQQQAALMASVA QGGYLNPMAAFAAAQMQMA ALNMNGLAAAPMTPTSGGSTP PGITAPAVPSIPSGVNGFTGLP PQANGQPAEEI\FANGIHPYPA QSPTAADPLQQA YAGVQQYAG PAAYPAA YGQISQA FPQPPMIP QQQREGFVSFDNPASQA TAIQA MNGFQIGMKRLK VQLKRPKDA NRPY

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10478	40846	A	10539	1	547	AAAPMTPTSGGSTPPGITAPAV PSIPSPGVNGFTGLPPQANGQP AAEAVFANGIHPPYPAQSPTAAD PLQQAYAGVQQYAGPAAVPA AYGQISQAFPPPPMIPQQQRE GPEGICNLFIYHLPQEFGDS/EL MQ/MFLPFGFRE/RFDNPASAQT AIQAMNGFQIGMKRLKVQLKR PKDANRPY
10479	40847	A	10540	96	1080	WFKCYGCNSS/RDWQRSTYLLS WEVRG/RPVDPDSGCKAVVALC SQPAHPSNICKVGGCLTK\HLL LMGAMGIRVACLEVRDGEER GGEEATFTSLAERQVGTAAHRH LHQPALYIQRKVPAALHMCVV QKPSLFQADSRAPLEQGLRQQA SLATARPIVSGANAGPAGLKVP QAAQLQLSPYLHRGVGDEACR YGRSQPTRKAFALCICAAPALP CPALDGSWMVCGLGQETRTSL ANVQSFTQRPQQPLTVWMLN RGRKPAQGTLTVICPIGPHLLT STITESVCVPRRNKYHSRTLPA AQHCQWLVTAVPTALGLVIRA GSKKLC
10480	40848	A	10541	1	392	
10481	40849	A	10542	1	110	FFWSHS*VYYTCFLLNQ*KHLK PGPSGSLSPSISGN
10482	40850	A	10543	1	978	MAAATRGCRPWGSLGLGLV SAAAAWDLASLRCTLGAFCE CDFRPDLPGLECDLAQHLAQ HLAKALVVKALKAFVRDPAPT KPLVLSLHGWTGTGKSYVSSLL AHYLFQGGRLSPRVHHFSPVLH FPHPSHIERYKNDLKSWSVQGN LTACGRSLFL/DEMCK/MPPGL MEVLRPFLGSSWVYGTNYR KAIFISINTGGEQINQVALEAW RSRRDREEILLQLEPVISRAVL DKPAPLPSPNSGHHWKERLLD AVVPFLPLQRHHVRHCVLNEL AQLGPGAKGMRVVQAVLDSTT FFPEDEQLFSSNGCKTVASRIAF

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10483	40851	A	10544	1	560	ATSPHQSQQSTVDVGLHDPQP YPQHAIQVQHIQVSEPTASAPSS AQGSSSTQGGGLQQQQQQQQ NSSVQHTYLPASAWNSFRGYSE IQMMTLPPGQFVITDSGVA TPV TTGQVKAVTSGHYVLSESQSEL EEKQTSALSGGVQVEPPAHSDS LDPQTNKQQQTQYIITTTTNG NGSSEVHITKP
10484	40852	A	10545	3	205	
10485	40853	A	10546	2	348	ADQARGKPTWEAVSATQFOLD FPIT*CYGLL*QRVSRRHIGALQ GKPVPLLVHLLYPITPREGLG DRARLCLKQQQQQQQQQQQQ QLLLLLLLLLLLLLLQQCEGT EGRPPFD
10486	40854	A	10547	1	1146	MVTYKLVLRGCESTWNLENH FSSWQKRA/IRLWTVLDAIDQ MRLPVVRTWCLKEWHYGSLA GLNKAETSAKHGEAQSNISKGC RYADLTEDQLSSGESLKEIVPQI KEGKWVLTAAHGNSLRGIVKH LEGLSEEAIMELNLTGPIPIVYE LDKNLKPIKPMQFLGDEVTLCK AMEAVAAQSKAKRRPAGML LSPGTPSLAIPSSAPAPCTCHTD HIWNSPVYSDLAIRANPFCVHI SKANYLVNELHTAVNVAGLYI GWRCPHYLWDCFRIGDESRCF CGHLLREHRIISDJSVPCKVSQC RCFMFCFIPSRPEEVGCCCGCFE SNFLCAACDRRWEHETFFDTQ KTRQRGGRPRGADYVFAEMA VLREAILSNSDF
10487	40855	A	10548	2	516	GRLNERHYGGLTGLNIAETA KHGEAQVKIWRRSYDVPPPPKE PDHPFYRNIRMDRRYADLTED QLPSCESLKD TIARALPFWNEEI GPQIKGKRVLIATHGNSLRGIV KPWEGLSEEAIMELNLTGPIV YELDKNLKPIKPMQFLGIDEET VRKAMEAVAAQGKAKK
10488	40856	B	10549	123	237	

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10489	40857	A	10550	1	952	PAAPQVAGRLGLGCPLHLHVF AVVSAMLLRLCVPRVLGSSV AGLRAAAPSPFRQLLQAPRL CTRPFGLLSVRAGSERRPGLLRP RGPCACGCGCGSLHTDGDCAF VDFLSDEIKEERKIQKHKTLPK MSGGWLELNGTEAKLVLRKVA GEKIPVPFNNNSIPPFTYGEKD PSQSQKVIEDREPELTLSPKFVV EVKNDGGRKALVLDCHYPED EVGQDEAEESDIFSTRREVVSFQS TGESEWKDTNYLTNTSLDWA LYDHLMDFLADRGVDNTFADE LVELSTALEHQEYITFLEDLQEV LSRAHRADRC
10490	40858	A	10551	1	879	AAGCRKENSLDLRSQFPRGRDS EDFNVKEEANA AAEIRYTHIL NRVLPPDIRILA WAPVEPSFSAR FSCLERTYRYFFPRADLDIVTM DYAAQKYVGTDFRNLCKMD VANGVINFORTILSAQVQLVGQ SPGEGRWQEPQLCQFEVTGQ AFLYHQVRCMMAILFLIGQGM EKPEIIDEVLLNIEKNPQKPQYSM ACFEPLVL\YACKFENVKWIYD QELRSSNITHLQQLWANHAVK THMLYSMLQGLDTPVPCGMG PKMDGMTWGNVVKPSVIKQTO CLCRRSEDAHI
10491	40859	A	10552	231	358	
10492	40860	A	10553	2	319	
10493	40861	A	10554	573	1660	MAAPTARPVLTHLLVALFGM GSWA AVNGI WVLPVVVKELP EGWSLPSYVSVLVALGNLGLL VVTLWRRLAPGKDEQVPIRVV QVLGMVGTALLASLWHHVAP VAGQLHSVAFLALAFVLALAC CASNVTFPLFSLHPPRFLRSFF LGQGLSALLPCVLALVQGVG RLECPAPINGTPGPPLDFLERF PASTFFWALTALLVASAAAFQG LLLLLPPPPSVPTGELGSLQVG APGAEEEEVEESPLQEPQSAA GTTGPDPKAYQLLSARSACLL GLLAATNALTNGLVLPVQSFSC LPYGRALALPPGLWCWAVLPI WACFLGHGCCAGPWQGWGG LLSAGRVLWGLPDGRWQS

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *~Stop codon, /~possible nucleotide deletion, ~possible nucleotide insertion)
10494	40862	A	10555	154	850	QFFRVITCLPFKGPDYRLYKSEP ELTTVAEVDENGEKSEPVSEI ETSVVKGSHFPVGVVPPRAKSP TPESSTIASYVTLRKTKKMMDL RTERPRSAVEQLCLAESTRPRM TVEEQMERIRRHQQACLREKK KGLKCFSVLSDQSPLOQSPNLR DNPFRITQTTRRDDKELDTAIR ENDVKPDHETPATEIVQLKETE PQNVDFSIRGLLDPCPSVILPGR SIKRAKNQNS
10495	40863	C	10556	39	436	
10496	40864	A	10557	2	959	
10497	40865	A	10558	34	1044	QGCAGAGPLHPARLPCCVHGC PVRMHALSCHVRCHFVTFR LMYLDWLPTVIEPCGVGSNKV PVVQHPHHVHPLTLITYSNEH FTPGNPPPHLPADVDPKT/GMC SCGTGRCAVARTCRIRSCVPCE ALSPCDARGAHSAGIPRPPHPPD ISPYYPPLSPGT/QGQPVYPITGG FRHPYPTALT/NASMSRKHQD SKKEEEKKKPHIKKPLNAFMLY MKEMRAKVVAECTLKESAAIN QILGRRLGYNARAFGLKRGWR LDKYRGFVWMEMAVVWSLPPA FSFQGGKKKKRKRDKQPGETND KPESSLGASSLMVVGNWYTRN QEKHIPTLELDHTVSV
10498	40866	A	10559	2	398	
10499	40867	A	10560	174	362	
10500	40868	A	10561	14	266	
10501	40869	B	10562	67	474	

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10502	40870	A	10563	1938	3291	ERRKRFGMLDATDGGPTEDAA LRMEVDRSPGLPMSDLKTHNV HVEIEQRWHQVETTPLRREEKQV PIAPVHLSSDGGDRLSTHELTS LLEKELEQSQKEASDLLEQNRL LQDQLRVALGREQSAREGYVL QATCERGFAAMEETHQKKIED LQRQHORELEKLREEKDRLLAE ETAATISAJEAMKNAHREMER ELEKSQRSQISSVNSDVEALRG QYLEELQSVHRELEVLSQYQS AKCLENLAQALEAERQALR QCQRENQELNAHNQELNNRLA AEITRLRLTLTGDDGGGEATGSP LAQGKDAH*LKGLM/RVKESEI QYLKQEISSLKDELQTALR/DK KYASDKYKDIYELSIKAKA/ DC/DISRLKEQLKAA TEALGEKS PDSATVSGYDI\MKSKSNP/DL KKDRSCVTRQLRNIRSKSLKEG LTVQERLKLFE SRDLKKD
10503	40871	B	10564	58	4405	
10504	40872	A	10565	3	156	NSSHHCHHHHHHHHHHHQH QHNCVHQHHHHYHHYDYHH DDNY YHHHHHHH
10505	40873	A	10566	10	445	HRSTITRQCPSGLETRIALLP VFPSPGSRTPPSTPGSSSPQPR/P PLTRGPGPPRTHALASGTRGPA RGEEKVADTPHHGEGGCPNSE KEPFLHPTAPPRLPTSPESGP VPHTLQAPPLRRHLGGTPAGA PASPQSSEWGG
10506	40874	A	10567	1	288	
10507	40875	A	10568	50	542	TLSPERLSPELRLPYMITLGDA VHNFADGLAVGAFA\SWKT GLATSLAVFCHPELPHGLR LAAPGAVPCAKELLLNLASALT AFAGLYVALAVGVSESEAW\ LAVATALFLYVAICDMLPAML KVRDPRPWLLFLHNVLGGLG WTVPADAVPVRG
10508	40876	A	10569	1	690	
10509	40877	B	10570	34	465	
10510	40878	A	10571	1	624	
10511	40879	A	10572	3	933	

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10512	40880	A	10573	1	1481	RRFPAGAVAVIERGVRGGSQR CRTMADQLYLENIDEFVTDQN KIVTYKWLSTLGVHVNQAKQ MLYDYVERKRKENSQAQLHVT YLVSGSLIQNGHSCHKVAVLRE DKLEAVKSKLAVTASIHVYSIQ KAMLKDSGPLFNTDYDILKSNL QNCSKFSAIQCAAAVPRAPAES SSSSKKFEQSHLHMSSETQANN ELTTNGHGPPASKQVSQPKGI MGMFASKAAAKTQETNKETKT EAKEVTNASAAGNKAPGKGN MMSNFFGKAAMNKKFVNLD EQAVKEEKIVEQPTVSVTEPKL ATPAGLKKSSKKAEPVKVLQK EKKIRGKRVALSDDDETKETENM RKKRRTIKLPESDNSEYEVFPD SSGAYEAESPSPPPSPPLEPVP KTEPEPPSVKSSSGENKRRKR VLKSKTYLDGEGCIVTEKYYES ESCTDSEELNMKTSSVHRPPA MTVKKEPREERKGPKKGTAAAL GKANRQVSITGFFQRK
10513	40881	A	10574	1	100	

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10514	40882	A	10575	2	2271	PELLTEGVKEPIMDSQERDSGD PLVDESLKRQGFQENYDARLSR IDIANLTRREQVQDLFNKKYGEA LGKYPVQVPYKRKIKSNPGSVII EGLPPGIPFRKPCTFGSQNLRIJL AVADKIKFTATNPFQGLIPKPD EDDANRLGEKIVLREQIKELF NEKLR*GPWGLNRPVLVPYKL IRDSPDAVEVPGLPDDIPRNP TYDIHRLKILKAREHVRMAIIS QLQLLQQQQHHISEGRPF AEIC NDAKVPGESEARKPPFCVGT LFLKKREPEVSMNKDRYPQE APRNLQSLRTLLDILDDPRGGC VHLRQSQSRWRGADTRELPRG MLEGLRQLLSAIGCPRDPTCAP AQPGDQPLQRLAFTLANEPQTV LEKPPPRFRRRGAARSPEQLYTP RRGGVLPAPERTQSASADAGS LACRALEVDSGCPTGPPCPKGS RRLTITSGVDCGLLKQMKLEQ EKVVLQGLEMMAGSRLQRLQ PVQDRQCRLLGQSRASADFPA GSPHPLGRLLPKVQEVARCVGE LLAAAGASRALPTSSSGPLCPA LTFTSFPGWQQQTILMLKEQNR RLTQEVTEKSGRVMQLEKQSA LIMKQLFEAQALSQDDGEASGL HLHLARLGWAEPQGSSTVQPF GGRPVSPNVSGWRPAAQAVP EWAPSCPTCHPGFPGPPAPGR TEPLTRFWLLVLTWAGALLSLH
10515	40883	A	10576	346	3136	ALRTRRLWPGGHCRAEAPQWP P/ASPLAPATAAAHSRHLSL SDKGSMSDCGPGTSGELGLR PKIEPEVLIIQVTPDALPTSE EMTDSMPGHLPSEDSGYGMET LTDKKWTDGAKAIGISEPIKV LYSKFLMHPEELFVGLPEGISL RRPNCFGIAKLWKILEASNSIQF VIKSGEEIRWDRELFRCRACSM GGSLQIAKSYTTGLESKSCDP AVESKASAGQDEMOPHARPKL LTEGVKEPIVD
10516	40884	A	10577	60	352	
10517	40885	B	10578	1	720	
10518	40886	B	10579	1	1478	
10519	40887	B	10580	1	1895	
10520	40888	A	10581	2	413	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
10521	40889	A	10582	2	969	WGSWAPQSRGCPYPQPGAAQGR ALAPQHRGSCSPPTWGGGKE/Y LMRAHFGLPSVEAEDKEGKPP SVKFEIPYFTTSGIQVRLAPGSL YGRKRSSLGKSHPSLLQVDGQ YSQQQAGAGHPRTGKRGSQTPG ARQRVEPGKCWPVVCVPHVPC PPTSTALRKHLRPQRAIYTSRLA PGALGGHCSVCLLPGLAGLAC GAFPGPAWVTRCCHSARSVL HQGAPPGPDITVPARLPEPEVE VSCRGRPALNAQQSPPLPPP PPSAAAEASCSSHHVQRRLRAG PEGQGFYLFHNRNKHSLKLA PREPFCVVTDSRIQFGPH
10522	40890	A	10583	50	1083	NPRAIFKSVRTCPVPPTQPCRNV KARSCGVGATGTSFTLSVWPH RYITQEGHKLETGAPRAPGTVT NAVWCVRSEGKIRKNEVFLDVI ESVNLVLSANGNVLRSEIVGSI KMRVFLSGMPELRLGLNDKVL FDNTGRGKSKSVLEEDVKFHQ CVRLSRFENDRTISFIPPDGFE LMSYRLNTHVKPLIWIESVIEK HSHSRIEYMIKAKSQFKRSTA NNVGDPHFPLPNDCLRNPSFKIT TVGERLSWVPENSEIVWSIKSFP GGKEYLMRAHFGLPSVEAEDK EGKPPDSVFKFEIPYFLTSGIQ VRYLKIIIEKSGYQALPWVRYIT QNGDYQLRTQ
10523	40891	C	10584	175	454	
10524	40892	A	10585	1	193	LLPRPGSGDLFLSPVLPS/HSAS WACPLPRSPMPSSCC*R*RKE MASGFSKGPTLGCCPTCP
10525	40893	A	10586	2780	2965	SPSQGESIPT*WRPTGPSPTSSP GPA*SSLSRPSRSSASASPMCMC VRPSMWAASLLKSL
10526	40894	A	10587	1	1502	
10527	40895	A	10588	1256	1990	RCAPMTTCAWASCCSPWPTPF GTGPSTSVSTSWPWQFWGWG WL*VGAAPAGGRQHPSPPALPR RSSGRSKLSRPSLCQLVPGIL*T RLLSPQKESLPWRGWSWREFPL PQLNLTATEADPGVSSLSAQ RHLHSYKIKVLSRQESLAPAPA SGYPESTALPQNGRGPWAVGF GQIPFLCIHNVGRSLGAGPGSG KPLPCVFRSTFSSSHQYCRLLGR KHNFHTFKGLRCGGPGDGR

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10528	40896	A	10589	375	678	RCCCTTRPARKCRTTMGIRHS TWPAPTATRTTHSGSRSPGSTA ASPRGLCRPALTDPCPGHLSG LPVASV*AGSCPHVPGDQTTRK SGTVFPTQCTRP
10529	40897	B	10590	1	2452	
10530	40898	B	10591	1	1140	
10531	40899	A	10592	1	1617	
10532	40900	A	10593	1	1448	RERSCLHLVCIRCSDVVEMGS VLGLCSMASWIPCLCGSAPCLL CRCCPSGNNSTVTRLIYALFL VGVCVACVMLIPGMEEQLNKIP GFCENEKGVPCNILVGYKAV YRLCFLGLAMFYLLLSLLMIKVK SSSDPRAAVHNGFWFFKFAAAI AIIIGAFFIPEGFTTVWFYVGM AGAFCFILQLVLLIDFAHSWNE SWVEKMEEGNSRCWYAALLS ATALNYLLSLVAIVLFFVYYTH PASCSENKAFISVNMLLCVGAS VMSILPKIQESQPRSGLLQSSVIT VYTMYLTRS/CMTNEPETNCNP SLLSIIGYNTTSTVPKEGQS/VQ WWHAQGNIGLILFLLCVFYSSIR TSNNGQVNKLTLT/SGESTLIGR WVGAR/SDGITGRDGGTDVSPE AVRINGK/RDGCSLYSYSFFHF MLCLASLYIM/MTLSWYRYE PSAWMESQWTAVL/WVKISSS WIGIVLYVWTLVAPLVLTNRDF
10533	40901	A	10594	3	343	GVLLCRL*QGQNYW/NFLQTK VTGNMRDKRTTPMPEFLHASW PNTELRYWKENCPEQKGP*PM MAL*GCPLPWPAPNVTSSSKG WSPGQLWMYRFGRLRISSETG WSLWLT

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10534	40902	A	10595	1	2500	MEDAWGIRKETGRVKEEAKEV TGWGNWNRNVEKSSMRKVK AARPGFKLPMSTDIIPKCTIKD LLPKEKSSTEAVFHTVVLERHE SPDIEDFSFKEPQKNVHDFECQ WRDDTGNYKGVLMQAQKEGKR DQDRRDDIENKLMNNQLGVSF HSHLPELQLFQEGEKMYECNQ VEKSTNNGSSVSLQQIPSSVQT HRSKKYHELNHFSLLTQRKA NSCGKPYKCNECGKAFTQNSN LTSHRRIHSGEKPYKCCECGKT FTVRSNLTIHQVIHTGEKPYKC HECGKVFRHNSYLATHRRHHTG EKPYKCNECGKAFRGHSNLT HQLIHTGEKPFKCNECGKLFTQ NSHLISHWRIHTGEKPYKCNEC GKAFSVRSSLAIHQTIHTGEKPY KCNECGKVFRYNSYLGRRHRV HTGEKPYKCNECGKAFSMHSN LATHQVIHTGTSPKFCNECSQ VFTQNSQLANHRRHHTGEKPYK CNECGKAFSVRSSLTTHQAIHS GEKPYKCIECGKSFTQKSHLRS HRGIHSGEKPYKCNECGKVFA QTSQLARHWRVHTGEKPYKCN DCGRAFSRSSLTFHQAIHTGE KPYKCECGKVFRHNSYLA TH RRIHTGEKPYKCNECGKAFSM HSNLTTHKVIHTGEKPYKCNQC GKVFIQNSHLANHQRTHTGEK PYRCNECGKAFSVRSSLTTHQA
10535	40903	A	10596	330	432	
10536	40904	A	10597	1	147	
10537	40905	A	10598	1	380	RTRGRGQRGMELVQVLKRGL QQITGHGGLRGVYLRVFFRTNDA KVGTLVGEDKYGNKYEDNK QFFWHRWLHSMTDPPPTTKPL TARKFIWTNHKFNVTGTPEQY VPYSTTRKKIQEWIPSPYK
10538	40906	A	10599	9	536	VLKRGLQQITGHGGLFRGYLR VFFRTNDAKVGTLVGEDKYGN KYEDNKQFFGDERLQASGLA LTLCEQTEEGSCLWSQRSLGK SQSMNFKNKSTRSFQRTVSAGK TKYYHPVAVGRQQQARA TCD HVDPRTEHGPAA WPHYWPLR GLKHALLTFTVALQYRAQPLFR LPNLPL
10539	40907	A	10600	239	263	
10540	40908	A	10601	1	600	

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10541	40909	A	10602	1	1178	
10542	40910	A	10603	1	1038	MHLEVNSSPEPLDENLDNTVTS ALSGHEQRIQTSPLVLLTTKTEI LARFSQLQFPEEQSSFAYPANC VKSKGMNTKLLPLRLKVCREL TIDSDRDILYRTLFMGDSGMGK VQFEFGEEVHIVIKSTGFGPFSS YATLEPFVAVQLWGGGQHYQ GQQPPMGMMGQVNGNHMM GQRQIPPPYRPPQGGPPQQYSGQ EDYYGDQYSHGGQGPPEGMN QQYYPDGHNDYGYQQPSDEPQ GYDRPYEDSSQHYYEGGNSQY GQQHDA YQGPPPPQGYPPQQQ QYPGQQGYPKQQQGYGPGSQ GPGPQYPNYPQGGQGYGGYI PTQPGPPQPPQRPYQYDQGQY
10543	40911	A	10604	130	213	LKVST*AMPLPR*TPSRRCQP*R TGTS
10544	40912	A	10605	124	208	LKVST*AMPLPR*TPSRRCQP*R TGTS
10545	40913	B	10606	140	589	
10546	40914	A	10607	1	302	
10547	40915	A	10608	2	98	
10548	40916	A	10609	2	190	
10549	40917	B	10610	1	856	
10550	40918	A	10611	123	1287	AFSLGK\MSEKLLFGPNGERMP FSKVKALCAGLQATVAAPKNA EENKAIQDVAKDTAFLGITDEA TEGQFMYLTGGRLTYSNWKKD EPNDHSGSDECVILLNGLWN GISCTSSFIAIFQWAHYQYRQAE NYPKGELHTLRVKLCGPSWPT NAIHFRSRLMLPGPTVLLMTM AVFQLSQAVAMCSWCCGLVLP PAGCLQDKASKPRETQAQPL CVRGNFRIPSRQDFAAALARAL SGLDLWASLVVPFADFLGSSLS VPWFYSLENDDEDLTRLRLN GERTFLES PGKKRIGAGTPPMS QEAVMLAVMERDPGQCRGEE GPTECRAMWPGWGRHSLPGH PAMLCFLGSDLEIRGSNGWE PPFIPGLQPELARGIQSGRGAE
10551	40919	A	10612	292	445	LSICLQSAVCTPGMD/PAAPCSL GILDWGTLPSTAEPGREGPADA WVDPGVR
10552	40920	A	10613	363	575	HLLPTQGCALCPAEGWPAPWQG YTPTCDCAEDTTQLERAGQLPP VF*SCHRRGGVSSQ*GSPGVPQL LHQPE

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10553	40921	A	10614	3	638	SSKLSGLTINNVVDIILAHHFGQE ELQANLDI.IQTYRMHIAQDINQ DNLQLFLNSYNRRDLIERPIL GQNDNKSSTLKGSTLLVVGDN SPA VEAVVECNRLNPINTTLAL KMA DCGGLPPG*FSPGKLT EAF KYFLQGMGYIPLVLCYSTSGS MTSVARSRI THSTSSSLGSGESP FSRSVTSNQSDGTQESICESPDV LDRQQTMEVSC
10554	40922	A	10615	3	1152	KSCFNAFFNFEDMQEITQHFAV CHVDAPGQEQEAP/SPFPTGYQ YPTMDELAEMLPVLTLSLKS IIGIGVGAGAYILSRFALNHPEL VERPLCSLMVDPC/ALKGWIDW AASKLSGLTTNVV\EIILAHHFG QEELQANLDLIQTYRMHIAQDI NQDNLQLFLNSYNRRDLIER PILGQNDNKSSTLKCSTLLVVG DNSPA VEAVMADCGGLPQVVQ PGKLT EAFKYFLQGMGYIPVCA AQSPHVRVSTASMTLRARSRT HSTSSSLGSGESPFSRSVTSNQ DGTQESCESPDVLDHQTMELIS LDDVLLSALLRNGKSAQKKKI SAKPKLEFLCPRPGTCDHGSRE KQGHSRGPGQFPGRWPGRAVA ETRGAIDHRL
10555	40923	A	10616	169	270	GICPFLQLSFYHLLD* DTRYLQI LRLQLKPHSFH

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10556	40924	A	10617	1	1551	MRKDSCASSMHQQVSRSKKRA GQKTPPEDQEGGQRALRSSHIR LGQFLLEDCKTPSPSLGADAI AKQRKTSVSAAASVSATIPIRR VQGPTVVGSWARGVSAASGP RGTPGPKGARSEKGC SLSHGPQ TNKPLVVQKGQKMEQANHVP GLVISVVYKDILKKIVQRETSH LIHVRYAEAITGRRRTAPEDKGS LGRDMLAKAGAIHYMNMGNKL PIWCHLLEEGIVLEWALEGQF GRAKNACPQIRLKDPTTFPYQ RQYPLRPEAHKGLQDIVKHVK AQGLVKKCSSPCNTPILG VQKP NGQWSLVQDLRLISEAVIPLY VVPNPYTLLSQIPEEA EWFPVL DLKDAFFCIPLHYDSHDSQFLF AFEDPTDHTSQLIWTVLPGQFR DSPHLFGQALAQDLGHFSSPGT LVLQYVDDLLATSSAASCQQA TLDLLNFLANQGYKASRSKAQ LCLQQVKYLGILARGTRTLGK ERIQPILAYPHKTLKQLWGFL QIT/GFCQLWIPR*SKI
10557	40925	A	10618	1	1022	MKPSVWALIQNLSPYEKGILG LTKRHQGRCLTDGROGIQPLPP SQAHTGIPLHPYSIQVDCAIDR GKLCFCCIGECNYSDDQGPQT VAGSWARGISAAVSVSATILISR VQGPLHVLGQEVFLLRRQTNL AGSERTENGAGQSPGGACYQC GLQGHHFTKDCPMRNKLP RP LYQGNHWKDGEPHEDCQIIIV QTSAAEDLLEVPLANPDNL YTDGSSFVENG E VAKA VIAQFPT TVGVSCLDGRLRVLEVLARIR /LGEGNKGY S I R K R G S Q I V P C R *HDCISRKPHHLSPKSP*ADKQL QQSLRIQNQCAKITSILIHQ*QT
10558	40926	A	10619	1	2091	
10559	40927	B	10620	1	2269	
10560	40928	A	10621	1	1776	

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10561	40929	A	10622	112	1465	LLKGARCLIQRPFA/LQQETHR AHTLLLEWEPQAEATAFTTLKQA LLQAAALTLPTQRNFSLYVTDR AEIALGVLIQTGCTTPQPVAYLT IEKGKERGEQHHKQLAEAAER KERKRQEVREKEKEKTERQSK KEREEETKMESEKRETEKEVS TLAALEEFSPQPSGLAEAGA GSLFSWGGVEGEVGGGAAH SAHRLVQVPGQVRVQVFENP LLKAIKSDLPRSSLWSGRKTSV SAAALKEIRKEISKGTQIPLGYR LCPLQAVGGGEFGPTKIHVPFS LSDLKQIKADLKGKFSDDPDYR DVLQGLGKTFDLTWRDVMLLL DQTLAFNEKNAALAAASEFGGI WYLSQVNDRMTEERDQFPFG QQAIPMDPHWDLDSHGDWS HKHLLTCVLEGLRGIRKKPMN YSMMSTIIQKKEENPSAFLQQL WKSRLRYTPPSSKSL
10562	40930	C	10623	52	690	
10563	40931	C	10624	199	285	
10564	40932	A	10625	59	411	SWPSDKQTLVVQRGQKMEQA NHPDPTDHMSQLMWT/VLPQG FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSAEASCQ QATLALLNFLANQGYK/LSRSK AQLCLQQVKYLCL
10565	40933	A	10626	280	571	DIYVPIRII*KLPAAYAD/PAVPP CTSGRIWL*IHAGAWSSFWLVS Y*LLPQFQILLVYSEIQLPGLV LGECMCQGICPFLLDFLVYLRR GVCSIL
10566	40934	A	10627	60	148	WGRGEPLCLAQGL*THQSAPC QNRPLGSL
10567	40935	B	10628	1	397	
10568	40936	A	10629	55	219	LGKHHLLGSIDPRGSWVTGEYI FLRPPIAA*GRQ*DFLPPELWV TSLNNSWAFS
10569	40937	A	10630	3	494	
10570	40938	A	10631	2	689	
10571	40939	A	10632	157	277	DV*SNNSMTSLQVRCRTSMYLS GSSENFPRSTWICDAVAETPLA QEPATVPGP
10572	40940	A	10633	230	543	PSDRQTLVVQRGQKIEQANHL VGLVTSVVWKDCLKKIVHGMMA FSMLISC/PRQLSSRSITIQGILGR AVTRYFSHLLSCNWTLLQIDQ GHQATDGLTNGTPNELN
10573	40941	B	10634	1	669	

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10574	40942	A	10635	119	409	GDICHHGLTPVGSHSLSCSR* QVA*VGAVTAATIGTGILLQQL AFLVCNWLLSGSSENFPRSAI CFKSEREKGTICIQVGNPPPTA CKGHN
10575	40943	A	10636	3	482	LSSYSGGDLEKLYV*LRDCKYT NQHSVSSSRFVNIPISTLCLTQG L*MHPMDTLYLATLGGDLENL CVHTLYLANLVGMWRTFVSSS GIVNAPISTLSKQTT*LSVKWTN QQDVGGARQENKSRLPEPAVT TPLGSPPTPWKLCSFALCNKSC YCPK KKK
10576	40944	A	10637	1	2331	
10577	40945	A	10638	879	1353	SNNRTEGARGKRQLMSSP/STE PRVRLTIEGQETDFLLDTGAAFS VLISCLGRLSSRSVTIR*ILGQPV TRYFS/QPLSCNWETLLFSHAFL IMPESSTPLLGRDILAKAGAIHYI NMGKNLPICCPLLVEGINPEV WALEGQFGRAKNARPLQIRLK
10578	40946	A	10639	345	1996	
10579	40947	B	10640	97	1110	
10580	40948	A	10641	728	5171	
10581	40949	C	10642	1	2049	

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10582	40950	A	10643	1	2019	MNAHPEFRMAMKDGEIVWD SVHPCYTVFHEQTETFSWLSE YHDDFRQFLHIYSQDVACYGE NLAYFPKGFENMFVVSANPWV SFTSFDLNVANMDNFFAPVFTM GKYVTQGDKVLMLAIQVHHA VCDGFHVGRMLNELQQYCDE WQGGAQYPLRPEAHKGIQDIV KYLKAQGLGRKCSPCNTPLG VQKLNGQWRLVQDLRLIN/EGF F*SSKLQAMQAMFAENSMSSV YSPTQEA EYWLPHGILQPADCF FEAASTRSMWPRE/DWLSTT/S LTTWNMDFADFGTTIKQDFRLL GQTSVDRLLQLSQQAVKGNQ LLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGH LDHGSHSYRRSDNSLDRSHSC CRSDIGLGRSHLYCRSDYQRE TTIPSMVPKGNQAPCMKSNN LIVLGTVTLDVIGLVMVPVL GLLRDIVHSDIASHYGVLLAL YALMQFLCAPVLGALSDRFR RPVLLASLLGATIDYEIMATTPS WEDEEPIEHSQQIIVQTYATR DDLLEVPLANPDNLNLYADGSSF VENGIRRAGYAI VSDVTVLNS LAAVTLQNRQGLDLTLAEKGG LCTFSGKECCFYTNQSGISSPLE DITTAGPFLHPIQQEVARAIIQ FPTAFGVSCLEGRLRGEASWTS
10583	40951	A	10644	803	1171	
10584	40952	A	10645	1	2148	
10585	40953	A	10646	1094	3886	SNDRTEDDCGKHPFMSSPP ¹ TEP WVCLIEGQEIDFLDITGTTFSV LIPCLGRSSRSVTIQGILGQPVT RYFSHLLSCNWETLLFSHAFLV MPESPTPLLRDILAKAGAIISM KTGNKLPICCPLEGINPEVWA LEGQFGRAKNAHPLQIRLKDPI SFPYQRQYPLRPEAHKGLQDIV KHLKAQDSVRKCSPCNTPLG VQKLNSQWRLVQDLRLINEAVI PLYPVVRNPYLLSQVP ¹ EEAEW FTVLDLKD
10586	40954	A	10647	762	1298	

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10587	40955	A	10648	893	2165	GPRGTGPKGKARSEKGRSLSHG PQTNKPLVVQKGQKMEQANHP VGLVISVYVYKDKLKVQRETS HPLIHVRYAEAITGRRRTAPEDK GSLGRDMLAKAGAIHMMNMG KLPIWCHLLEEGIYLEVWALEG QFGRAKNACPVQIRLKDPTTFP YQROYPLRPEAHKGLQDIVKH VKAQGLVKKCSSPCNTPI LGVQ KPNGQWSLVQDLRLISEAVIPL YPVVPNPYTLLSQIPEEAEWFP VLDLDAFFCIPLHYDSDHSQF LFAFEDPTDHTSQLIWTVLPGQ FRDSPHLFGQALAQDLGHFSSP GTLVLQYVDDLLATSSSEASQ QATDLLNFLANQGYKASRSK AQLCLQQVKYLGILARGTRTL GKERIQPILAYPHPKTLKQLWG FLEITGFC* LWIPGYSKIARPLYT
10588	40956	A	10649	2	403	
10589	40957	B	10650	51	1038	
10590	40958	A	10651	581	1128	SPCRAQRHSCMWGLWQQSPCS PGSWQDSSPAQSGPPR*PFSVP SSPWCLPSTWPLSPSPLPASWR RKTSAPSLLSLATAGPP*AGVC E/AKTPKKKYSDDDEEESEEN SRDSESDFSDDFSDFFVETRRL RSRRNQKRQINYKEDSESDGSQ KSLRRGKEIRRVHKKRLSSSESE GYFFIKS
10591	40959	B	10652	1	4296	
10592	40960	A	10653	2	447	KEKKRNKKKKTIGSPKRIQSL NNKLLNSPAKTLPG/AC/GSPQK LIDGFLKHEGPPAEKPLEELAS TSGVPGLSLQSDPAGCVRPPV VKYCTDLIEEKDLEKDLVIKY MKRLMQQSVEVWNMAFDFIL DNNQVVLQQTYGSTLKV
10593	40961	C	10654	286	336	
10594	40962	A	10655	421	638	

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10595	40963	A	10657	1	888	MMNEKNLEKGLGVDSVDKDA MNAAIQQAIIKAQPSMSPKKAPP APAKEARNVVAVGTGGRGTHD RDPSEKPPRLQWFEQQA KLA KQQEEDSEEEEDLDGDVLEIG KSKIKVLAESVSDWEDIDSDEE LECEDTEAMDDVVEQDAEEEE AEEGPPLGAIPITDCLFCSHHSS LMKNVAHMTKDHSSFFPDIEYL SDIKGLIKYLGTHSSSNVCKGL WDLEKRP SIDLK/CRT*YSTKRH /CTRTLSASSHFILCQWFSVLS/P VHASTDQEIQEMHDDQSNPQN AVVREHCVGWGWGV
10596	40964	A	10658	1	1545	MATYTCITCRVAFRADMORA HYKTDWHRYNLRKRVASMAP VTAEGFQERVRA/HGPSRRRRA RARP/LYCTVCSKKFASFNA YE NHLKSRRHVELEKKAVQAVNR KVEMMNEKNLEKGLGVDSVD KDA MNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQQEEDSEEEEDLDGD VLEIGKSKIKVLAESVSDWEDI DSDEELECEDTEAMDDVVEQD AEEEEAEEGPPLGAIPITDCLFC SHHSSSLMKNVAHMTKDHSSFF PDIEYLS DIKGLIKYLGKVGVG KICLWCNEKGKSFYSTEAVQA HMNDKSHCKLFTDGDAALEFA DFYDFSWRLAVGGHDWVERLT ASHYFYGYYPGARVGHRS LMR YYKQRFGLSRAVAVAKNRKAV GRVLQQYRALGTGSGAAL MRERDMQYVQRMKSKWMLK TGMKN NATKQMHFRVQGSQK EIQIFHSSEIDGIATAVEDDFASP TPTKDAKN
10597	40965	A	10659	3	943	

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10598	40966	A	10660	1	2427	MATYTCITCRVAFRDADMQRA HYKTDWHRYNLRKRVASMAP VTAEGFQERVRA\HGFSRRRA RARP/LYCTVCSKKFASFNAYE NHLKSRRHVELEKKAVQAVNR KVEMMNEKNLEKGLGVDSVD KDAMNAAIQQAIIKAQPSMSPK KAPPAPAKEARNVVAVGTGGR GTHDRDPSEKPPRLQWFEQQA KKLAKQKEEDSEEEEDLDGD DWEDIDSDEELECEDTEAMDD VVEQDAEEEEAEGLPLGAIPIT DCLFCSHHSSLMKNVAHMTK DHSFFIPDIEYLS\DIKGLIKYLGE KVGVGKICLWCNEKGKSFYST EAVQAHMNDKSHCKLFTDGD AALEFADFYDFS\WRLAVGGHD WVEVEGRIRGCGSREDNECLL VCNFSVIGVAIQTRKGRTPIRA EELPSEKNLEYDDETMELILPSG ARVGHRSMLMRYYKQRFGLSRA VAVAKNRKAVGRVLQYQYAL GWTGSTGAALMRERDMQYVQ RMKSKWMLKTGMKNNAATKQ MHFRVQMDRCGIAVLVFKAPS FYLIMAPKKHSGDAGDSNMPK GSRKVLPLSEKVKVLKEKKLY AEVAKIHGVKLQTFGVSVTAH KGSVDPKSEQQQDILLQRVKEQ SFHSVEADPAEAGAGSGLSQLR KGI.PQCSSRLNGSSSATKVGAG AEEAPRASEGCEGCQHA\VTSQ
10599	40967	A	10661	3	658	GTKGWAFPIITDCLFCSHHSSSL MKNVAHMTKDHSFFIPDIEYLS DIKGLIKYLGEKVGVGKICLWC NEKGKSFYSTEA\VAQHMDKKS HCKLLIQDGA\AALEFADFYDFR SSYPDHKEGEDPNKAEELPSEK NLEYDDETMELILPSGARVGH RSLMRYYKQAIWLKKNLWQLP KIRKAVGRVLQYQYRSPGIGLS TGAALMRERDMQYVQRMKSK MGC
10600	40968	A	10662	1	221	MNPLANSTLTDVHPHFIFKQMA ELDRDMDEAGNHHSQQINTRT ENQTPHVLTHK\WELNNENTRT QGREHHTSEEFIAIQPEYYQKE KNSNDINLEGTSYWTEHNCSGI YKVINCLESEIHSEEN*CN*IFL SDNIQVELR*IFLMCDVPCPVSV CSHCSTPTYE

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10601	40969	A	10663	1	1815	MHEAGNHHCQQSNTKRKENQTP DVLTHK WEGFDQLRLEGLLCD VTLMPGDDDAFPVHRVMMMA SASDYFKAMFTGGMKEQDLM CIKLHGVSQVGLRKIIDFIYTAK LSLNMNDNLQDITLEAASFLLQILP VLDCKVFLISGVTLDNCEVEVG RIANTYNLTVEDKYVNSFVLKN FPALLSTGEFLKLPFERLAFVLS SNSLKHCTELELFKATCRWLRL EEPRMDFAAKLMKNIRFPLMTP QELINYVQTVDFMRDNTTCVN LLEASNYQMMPPYMQVMQS DRTAIRSDTHLVTLLGGVLRQQ LVVSKELRMYDEKAHEWKSALA PMDAPRYQHGIIVIGNFLYVV GGQSNYDTKGKTAVDTVFRFD PRYNKWMQVASLNEKRTFFHL SALKGYLYAVGGRNAAGELPT VECYNPRNTNEWTVYVAKMSEPH YGHAGTVYGGVMIYSGGITHD TFQKELMCFDPTDKWQKAP MTTVRGLHMCMTVGERLYVIG GNHFRGTSDDVLSCEYYSPH LDQWTPIAAMLRRQSDVGVA FENKIYVVGYSWNNRCMV VQKYDPDKDEWHKVFDPESL GGIRACTLTVPPEETTPSPRES
10602	40970	A	10664	1	1226	MNEIEFLERTPVDESDDIEQH DEIPTGKCIAPFDKRLKHFRVT EGSPVTFCTKIVGIPVKVYWF KDGKQISKREHCKMRREGDG TCSLHISTTSDDDGNYTIMAA NPQGRISCSGHLMVQSLPIRSRL TSAGQSHRGRSRVQERDKPLQ ERFFRPHFLQAPGDMVAHEGR LCRLDCKVSLPPPDMTWLLN GQPVLDPASHKMLVRETGVHS LLIDPLTQRDAGTYKCIATNKT GQNSFSLELSVVAKEVKKAPVI LEKLQNCQVPEGHPVRLCERVI GMPPPVFYWKDNETIPTCTRER ISMHQDITGTYACLLIQPAKSD AGWYTL SAKNEAGIVSCTARL DIYAQWHHQIPPPMSVRPSGSR YGSLSKGLDIFSAFSSMESTM VYSCSSRSVVESEDEL
10603	40971	C	10665	166	229	
10604	40972	B	10666	251	371	

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10605	40973	A	10667	79	1391	PWEGSAPATSPLEGDSAWGSA DGSESWSCRELLQPGDVLGESC GLTPPALPAHCIEGCLPPLTQE LRCCQPPRMGRWALDVAFWL KAELTLGLELLYYCFFIGINFY NKWLTKSF/HIFPLFMTMLHLA VIFLFSALSRAVQCSSHRAV VLSWADYLRRVAPTAALREVA SLFRKPSAEMLCPPARQGEA RELSQNPIIRAGEGRLQGHRQV ATVICAPAFSVMGLSPELQQCI VGNFASRYTMTKSSAVLFIIFS LIFKLEELRAALVLVVLLIAGGL FMFTYKSTQFNVEGFA/WCWG PRSSVAFAGPSPRCSCRRLNSAS RIPSTPCSTCSHSCS/WGLFPLFA VFEGVTGLLLRVLGSLFLGGILA FGLGFSEFL/VSSRTSSLTSLIA GIFKEVCTLLAAHLLGDQISLL NWLGFASASREYPTSLPS
10606	40974	A	10668	1	1129	MGRWALDVAFWLKAVLTLGL VLLYYCFSIGITFYNKWLTKSF HFPLFMTMLHLAVIFLFSALS ALVQCSSHRAVVLVSWADYLR RVAPTALATALDVGLSNWSFL YVTVSLYTMTKSSAVLFIIFS FKLEELRAALVLVVLLIAGGLF MFTYKSTQFNVEGFA/WCWGP RSSVAFAGPSPRCSCRRLNSAS IPSTPCSTCSHSCS/WGLFPLFAV FEGHLSTSEKIFRFQDTGLLR RVLG/SLFLGGILAFGLGFSEFL VSRSSLTSLIAIGIFKEVCTLL AAHLLGDQISLLNWLGFASAS REYPTSLPSKPCIPEVTQSPFQK PLVSVLLPVTLSDSDAGSVPGG SAAVPTPLGRCCGHLQSGWVGP
10607	40975	A	10669	566	1026	PVMPKLIYVIRTGKQLKISLGH VDFQTVPSFLQQLNV/WQTICA SEHPDRNDCAVLRQKSLGS VENTSGKRKCWGGQSGFTTSE LEETEEDSLSDYGDV/DGRK DALAEPFCMLIGEIFEELRGKPY QLEIHWQVPTGTPDHLLEEANEK

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10608	40976	A	10670	1717	2340	GIDVQGGKNSFSLSSFLERLPRD FFSHQEETEEDSDLSYGGDDV DGRKDALAEPFCFMLEIFEFLR GMFKWVRRTLIALVQVTFGRIT NKQIRDTVSWIFSEQMLVYYINI FRDAFWPNGKLAPPTIRSKQE SQETKQRAQQKLEENIPDMLQS LVGQQNARHGII/NKYSNALQE TRANHLLYALMELLLEI/CPE LRVHLDQL
10609	40977	A	10671	181	399	NRVIVPSQIMKRKRKVSIVLN VTGY*/RGM/RKPGLLNLASGFL LSTSPTSSENSRCRLGWQIDPW EEGETYV
10610	40978	A	10672	66	535	CWWQDPLQRTQKSVTATSTK IDISNVKIPKHPADAYFKKQQL WKPRNRKLAGKLSIPAARDAP RARPPHEAPPPPPPELRYRVPP RPAPSSWRHPSGKGRRGPPGIG GRIVGERQLRTEYGNDRPREG DPAPGCCGGARTLSLYGEIKLR VKF
10611	40979	A	10673	67	585	SAAKSEMAGEKVEKPDTEKKK PEAKKVDAGGKVKGNLKA KPKKGKPHCSRNPVLVRGIGRY SRAMYSRKAMYKIRKYSAAK SKVEKKKKEKVLATVTKPVGG DKVGGTRGVKLRK/MPRIYPT EDVPRKLLSHGKPFQHVRLK RASITPGTILILTGRHRGKRVVF
10612	40980	A	10674	2	282	CIALYCHLLNICSVKVKAEMQNL GREFIVPGMDSATSLIWATK/DL MNAVIEAPEKKPLLREKQDES QSEIKWASQKKHLPVQALSEF KAMDSI
10613	40981	A	10675	2	2798	
10614	40982	A	10676	14	2858	PDWRETKRPSASGLWNLALA QLAAEMTAVHAGNINFKWDPK SLEIRTLAVERLLEPLVTQVTTL VNTNSKGPSNKKRGRSKAHV LAASVEQATENFLEKGDKIAKE SQFL*E*LLAAVEYVRKQGD MKTAAGEFADDPCCSSVEQGNM VQAA*TLASVATCLLILA/DMG NVYITLLIQLKVVEDDILKLRNA GNEQDLGI*YKALKPEVNK/VNI MAVKRQQLKDVGHRRDQMAA ARGILQKNVLIIFYTASRA
10615	40983	A	10677	1	4545	

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10616	40984	A	10678	1	1921	MAGLGMGEEGIPGGERWEHKK RAHIVSNHRITRTGTHPYTHSPY PHKDNVHTARREHKTQDLGTI RSVGHSSEHTQHTTPTDTPVPLV VIVCRVCYRPPHGETRAEYTRH RGQNNRRTKFWVGIKEENLAQ QERTEEQLANIARGGYVLKDC AGQPELIFIATGSEVELAVAAAYE KLTAEGVKARVVSMPTDAFED KQDAAYRESVLPKAVTARVAV EAGIADYWKYVGLNGAIVGM TTFGESAPAELEEFEGFTVDNP LASRAVRLRLPFNNDQVEAAV GWKLAVRHNGPTALILSRQN LAQVERTPDQVKEIARGGYVL KDSGGKPDII.IATGSEMEITLQ AAEKLAGEGRNVRVSLPSTDI FDAQDEEYRESVLPNVAARV AVEAGIADYWKYVGLKGAIV GMTGYGESAPADKLPFFGFSTA ENIVAKAHKVLGVKAGSHIPRK KYDVPGKKSFPVKYSTIGSPSP ERPVSITTPNSFVIITANRVLHC NADTPEEMHHWITLLQRSKGD TRVEGQEFIVVEKLIRGLAMED SRNMFAL/S*IQPRRQSH*KSN RRS*CLSQV*KRASW*AFTNI* WPDRLHGLRKYSF/WSPGNIHHL RHCRML*VVRLRLRLNAVYE
10617	40985	A	10679	1	2940	
10618	40986	A	10680	2	404	
10619	40987	A	10681	2	546	WCPHRWRPHTLTPTAAPAVTK SPEATLHYGQVSWNSQNLHLE GQLQASALQGSFMLK**GDPLD F/VMSPPRPLFERLKARISQSTK TFTPCERLEKRRSTFLEGLTLLRS FRTGSVVQRKVVEEQMLDMWI KEEVSSARASIIDKWRKFGGMN QEAMAKYMALIKEWPGYGST LFDVEGTDIT
10620	40988	A	10682	1	555	
10621	40989	A	10683	1	627	

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10622	40990	A	10684	1	7232	MPEPPTHSMGSCAAGASLTSTA PCSTAPSPIDHLRAKECERTAQ DWQAAPPAALVRDPLAALVRT WRTFMSSSRIVNTPIGTLCLAQ GFQWFSVLSQVHASTDQEIQE MHDEQANPQNAVGTLDVGLID SVCASDSPDRPNSFVIITANRVL HCNADTPEEMHHWITLLQRSK GDRTRVEGQEFIVRGWLHKEVK NSPKMSSLKLLKKRWFVLTHIPG LLQEFREDALNWGPDEKIFKET ELVNDMDKINGRIERAE
10623	40991	A	10685	1	2146	IDSVCASDSPDRPNSFVIITANR VLHCNADTPEEMHHWITLLQR SKGDRTRVEGQEFIVRGWLHKE VKNSPKMSSLKLLKKRWFVLTH NSLDYYKSSEKNALKGLTVL NSLCSVPPDEKIFKETGYWNV TVYGRKHCRYLYTKLLNEATR WSSAIQNVTDTKAPIDTPTQQLI QDIKENCLNSDVVEQIYKRNPI RYTHHPLHSPLPLPYGDIINLN LLKDKGYTTLDQEAIKFNSLQ QLESMSDPIIIGILQTGHDLRP LRDELYCQILKQTNKVPHPGSV GNLYSWQILTCLSCFTLPSRGIL KYLKFLKKRIREQFPGTEMEKY ALFTYESLKKTKCREFVLSRDEI EALIHQRQDMTSTVYCHGGGSC KITINSHTTAGAVEVEKLIRGLA MEDSRNMFALFEYNGHVDKAI ESRTVADVLAKEFLAATSEV GDLPWKFYFKLYCFLDTDNVP KDSVEFAFMFEQAHEAVIHGH HPAPEENLQVLAHAHATSSIMQG DYTLHA/AIPLAEEVYSLQRLK ARISQSTKTFTPCERLEKRTSF LEGTLRRSFRTGSSVVRQKVEEE QMLDMWIKEEVSSARASIIDK WRKFQGMNQEQAMAKYMALI KEWPGYGSTLFDVEVRTGCHV LGWAGCWHLRTWITAKFMWR EDKMEHFALSTSFRAPKIVPLT PPFSSQFLFSCVNVNASVILGMN

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10624	40992	A	10686	28	561	MDIVQDATFVYATLQTAHYHR DAGLPVYLYEFEHHARGIIVKP RTDGDADHGDEMYFLFGGPFAT GAKVPPDPTTGCPVSHLWMQT HPSIGWPQGAHQFLICYALPNE SLLLRRKQKQKE*GGRNPNDG NLPWPRYNKDEKYLQLDFTT RVGMKLEKKMAFWMSLYQS QRPEKQRQF
10625	40993	A	10687	148	444	
10626	40994	A	10688	1	1531	PLPGARRCLHEFWGQLASMYV STRERYKWLRFNEDCLYLNYY APARAPGDPQLPVMVWFPGGA FIVGAASSYEGSDLAAREKEGL VFLQHRLGIFSLSTDDSHARG NWGLLDQMAALRWVQENIAA FRGRPREILTLFGQSAGAMSISG LMMSPLASGLFHRAISQSGTAL FRLFITRNPVKVAKKVAHLGAC NHNSTQILVNCLRALIRAKVM RVSNKMRFLQNFQRDPEEIIW SMSPVVDGVVIPDDPLVLLTQG KVSSVPYLLGVNNLEFNWLLP YIMKFPLNRQAMRKETITKML WSTRTLAKNSWGAEHGSKSL VGPPLAQLAPRPQNTKEQVPL VVEEYLDNVNEHDWKMLRNR MMDIVQDATFVYATLQTAHYH RDAGLPVYLYEFEHHARGIIVK PRTDGDADHGDEMYFLFGGPFA TGLSMGKEKALSQMMKYWA NFARTGNPNDGNLPCWPRYNK DEKYLQLDFTTRVGMKLEKK MAFWMSLYQSQRPEKQRQF

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10627	40995	A	10689	138	1898	ICKYIMNDQWARQNCLHSPTY GPSENVLSSAESKPEIQLSPSCPL IFSSQQUALSQHVWLSHLSQLFSS LWAGNPLHLGKHYPEDQKQQ QDPFCFSGKAEWIQEGEDSRLL FGRVSKNGTSKALSSPPEEQP AQSKEDNTVVDIGSSPERRADL EETDKVLHGLEVSGFGEIKYEE FGPGFIKESNLSLQKTQTGETP YMYTEWGDSEFGMSVLKNPR THSGGKPYVCRECGRGFTWKS NLITHQRTSHGKPPYCKDCGR GFTWKSNIETHQRTSHGLKPY VCKECCGQSFSLKSNLITHQRAH TGEKPYVCRECGRGFRQHSHL VRHKRTHSGKPPYICRECEQGF SQKSHLIRHLRTHTEGKPPVCT ECGRHFSWKSNLKTHQRTSHG VKPYVCLCECGQCFSLKSNLNK HQRSHTGEKPPVCTECGRGFT RKSTLITHQRTSHGKPPVCAE CGRGFNDKSTLISHQRTSHGK PFMCRECGRRFRQKPNLFRHKR AHSGAFVCRECGQGFCAKLT KHQRAHAGGKPHVCRECGQGF SRQSHLIRHQRTHSGKPPYICRK CGRGFSRKSNIETHQRTSHG
10628	40996	C	10690	160	294	
10629	40997	A	10691	3	82	SWACAIHPTGYLIEQAGG*WVT ARRD

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10630	40998	A	10692	1	1399	MLRRYRPDITSCHGSTAESKGG VVLDVSGRARPLRRTRNSPST SLTSSKMSGLDGGNKLPLAQTG GLAAPDHASGDPDRDQCQGLR EETEATQVMANTGGGSLETVA EGGASQDPVDCGPALRVPVAG SRGGAATKAGQEDAPPSTKGL EAASAAEAADSSQKNGCQLGE PRGPAGQKALEACGAGGLGSQ MIPGKKAKEVTTKKRAISAAVE KEGEAGAAEKKVQKEKK VAGGVKEETRPAPKINNCMD SLEAIDQELSNVNAQADRAFLQ LERKFGMRRLHMQRISFIQNI PGFWVTAFRNHPQLSPMISQGD EDMLRYMINLEVEELKHPRAG CKFKFIFQGNPYFRNEGLVKEY ERRSSGRVVPFSTPTLRWHRGQ DPQAHIIHRNREGNTIPSFNWF DHSLEFDRIAEIHKGELWPNPL QYYLMGEGPRRGIRGPPRPVE SARSFRFQSG
10631	40999	A	10693	3	441	
10632	41000	A	10694	190	2716	
10633	41001	A	10695	1	793	MARQKKMGQSVLRVFFLVLG LLGHSHGGFPNTISIGKRKRASR RSRLSLTRDHCPGKAFAVVFRA ERSTGGEQEAAGMLQGGEESRLF GSLWTLWPWRACSSWKLQSGD ADCLAAPGRITRARGAQSVVSG CRETGWGLFMRNTVQEHSFR FAVQLYNTNQNTTEKPFHLNY HETSPIPLKSPVVSFCCALVVHS TLHRPCLCSVSSLAHRSHIPSPH CHCKNCCCTPLQPTNVLDVYA LFARSREKANVTLLKLPLEVIPF
10634	41002	A	10696	2	2744	
10635	41003	A	10697	2	2740	
10636	41004	B	10698	47	7237	

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10637	41005	A	10699	426	2118	GFGHTVHAAEGGDFGGSWQGD DSVLLCSTVDPGSWAASRGKG SPCRGPLCGCCPGRSS/QPSKVE VAVSCSCGALLGMCMPVVL LEGCPRGVAAKGKGSQAQTV RRSPSADQSLEDSPSKVPKWS FGDRSRARQAFRIKGAASRQNS EEASLPGEDIVDDKSCPCFEVTE DLTPGLKVSIRAVCMRFLVSK RKFKESLRPYDVMVIEQYSAG HLDMLSRJKSLQSRQEPRLPVQ QGTRTGIDMIVGPPPTSPRHKK YPTKGPTAPPRESQYSPRVQDI VGRGPAITDKDRTKGPAEALP EDPSMMGRLGKVEKQVLSMEK KLDFLVNIYMQRMGIPPTETEA YFGAKEPEPAPPYHSPEDSREH VDRHGCIVKIVRSSSTGQKNFS APPAAPPVQCPPTSWQPQSH RQGHGTSVPVGDHGLVRIPPPP AHERSL SAYGGGNRASMEFLR QEDTPGCRPEGLTRDSDTSISI P SVDHEELERSFSGFSISQSKENL DALNSCYAAVAPCAKVRPYIA EGESDTSDDLCTPCGPPPSAT GEGPFGDVGWAGPRK
10638	41006	A	10700	1	774	
10639	41007	A	10701	124	815	HPGTAMDALNSMQNFLRGRPK TFKSLNAIEWSVKSGQIRNLES ARVSMVGQVKQCEGITSPEGSK SIVEGIIIEEEDEEGSESISKRK KEDDMETKKDHPYTWRJELAK TEKYWDGWFRGLSNFLSCPIP KLLLLAGVDRDLKDLTIGQMQ GKFQMQVLPQCGHAVHE/DAP DKVAEAVATFLIRHFAEPIGG FQCVFPGLLVTCPPLLQHRAL LVNTFAPEAHC
10640	41008	A	10702	69	370	
10641	41009	A	10703	1	224	MCNTPAYCDLGKAAKDVFNK GYGFGMVKIDLKTCSGVEFS TSGHAYTDTGKASGNLETKYK VCNYGLTFTQK*NTPAYCDLG KAAKDVFNKGYGFGMVKIDLK TKSCSGVEFSTSGHAYTDTGKA SGNLETKYKVCNYGLTFTQK
10642	41010	A	10704	2	171	

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10643	41011	A	10705	1	740	MCNTPTYCDLGKAAEDVFNKG YGFGMGKIDLKTSCSAVEFST SGHAYTDTGKASGNLEPECKV CNYGLTFTQKRNTDNTLGTEIS LENKLA KGLKLSLDITLVPNTG KKSSELKASYKWDFSVGSNV DLDFSGPTIYGWAVLVFEGWL AGYQMSFDTAKSKLSQNNFAL GYEAAADFQLHHTVTDTGTEFGG SIYQKVNGIEMSLNLA WTA/GSN NTHFGIATKYKLD CRTSLSAKA VVLGTRV GSC
10644	41012	B	10706	1	318	
10645	41013	A	10707	2	100	
10646	41014	A	10708	116	1746	SSVTGRTEKARIWEVTDRTV/R RPWIGEAVAAAAADGVTFSPV VTPHTFRHSYAMHMLYAGIPL KVLQSLMGHKSSSTEYVTKVF ALDVAARHRNRFTQFRLSETKE ITNPYAMRLYESLCQYRKPDGS CIVSLKIDWIIERYQLPQSYQLY YFELAI PVGYFPYGFSGFSTASRL LLHPRGLRAITIAVFGKQNTYIR LEPFKINVLEQITKHIEKLQCGG VVKQLSRRGNNQHSSTYDINR ADTQVRRAVNNYDIIVMSNSFN GQSEHQVWIARLTWVIGTINVV CAADVLI VPTPAELFDYTSALQ FFDMLRDL LKNVDLKGFE PDV RILLTKYSNSNGSQSPWMEEQI RDAWGS MV LKNV VRETDEVG KARLTWIGTINVCAADVLI PTPAELFDYTSALQFFDMLRDL LKNVDLKGFE PDVRILLTKYSN SNGSQSPWMEEQIRDAWGS MV LKNV VRETDEVGKEPPSTNTFR HSYAMHMLYAGIPLKVLQSLM GHKSSSTEYVTKVFALDVAAR HRVQFAMPESDAVAMLKQLS
10647	41015	A	10709	284	969	RVSGRKWF FIALKRMPAMKK AMNLFGLSNV RTVHPGFTV YISTHISFSLSGYRTGLRSFGLV KQKKSPIRMPCVYTNP CVSIHP LWLRLRSPSARWLCGSPSLG WTRTEPAPSPRGRTEKARIW EVTDRTVRTWIGEAV/AHAA DGVTFSPVTPHTFRHSYAMH MLYAGIPLKVLQSLMGHKSSIS TEYVTKVFALDVAARHRVQFA MPESDAVAMLKQLS

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10648	41016	A	10710	2817	3297	AGCVRHRLSENRLDHRALPAA SKLPAYA*LPPPLPAGRL*RIPH RQFL*HQI/RL/PTERRCLLTRRT EKARIWEVTDRTVRTWIGAV ARLAADGVTFSPVPTPHTRHS YAMHMLYAGIPLKVLQSLMGH KSISSTEYTKVFALDVAARHR VQIFAMPES
10649	41017	B	10711	1	963	
10650	41018	A	10712	1	1296	
10651	41019	A	10713	1	1167	
10652	41020	A	10714	349	3195	
10653	41021	A	10715	163	864	
10654	41022	A	10716	576	754	
10655	41023	A	10717	1	1449	
10656	41024	A	10718	1422	1600	
10657	41025	A	10719	489	726	ISCCSFFSPRPPHTRFRHSYAMH MLYAGIPLKVLQSLMGHKSIS TEVYTKVFALDVAARHRVQFA MPESDAVAMLKQLS
10658	41026	A	10720	1	1596	
10659	41027	A	10721	1	1572	
10660	41028	A	10722	2	100	
10661	41029	A	10723	561	804	TLRQTKPDNSADPPHTFRHSY AMHMLYAGIPLKVLQSLMGHK SISSTEYTKVFALDVAARHRV QFAMPESDAVAMLKQLS
10662	41030	A	10724	1	867	
10663	41031	B	10725	1	825	
10664	41032	A	10726	1	942	
10665	41033	A	10727	2	100	
10666	41034	A	10728	39	359	RILGKGAGQTRAESLVWGRGV PARCC*PGGPFLVPGPPP*VR/H LSYARPMML*PGIPLKVLQSLMG HKSISSPEVYRKVFALNVAARH RVQFAMPEFDAVAMLKQLS
10667	41035	B	10729	41	724	
10668	41036	A	10730	1	1023	
10669	41037	A	10731	1	1314	
10670	41038	A	10732	1	1128	
10671	41039	A	10733	892	1611	
10672	41040	B	10734	78	1099	
10673	41041	A	10735	1	936	
10674	41042	A	10736	766	1056	
10675	41043	A	10737	1	1422	
10676	41044	A	10738	1214	1721	

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10677	41045	A	10739	2592	3233	RWGRWRTGGSSRSEPTMELRA PAWPRGRPGQGARGAGSEL GNATAPSPACLCRNILCRMEES PNTDGRPETGSGNKRKGADK WWKIKTGMRDKLMERRNRRT GRTEKARIWEVTDRTVRTWIGE AVAAAAADGVTFSPVTPHTF RHSYAMHMLYAGIPLKVLQSL MGHKVISSTDFYTKVFALDVA ARHRVQFAMPESDAVAMLKQL
10678	41046	A	10740	6323	7130	
10679	41047	A	10741	319	522	RNTRYWVINSISVIPSSALISK SPRLMAKKTAFHFLGISRTSVAE FTFTRSGISRDHCYKAGAADR RPNAPPRAEFQSGWFLIMECFA R*VGDPQL/TA/HFDAV/RRE/IM PL/PREG/KTL/QTEVREMPKRC AVFLAINLGDRFDIKADEGGIT DIEFITQYLVRLYAHEKPKLTR WSDNVRILELLAQNDIMEEQEA MALTRAYTTLRDELHHLALQE LPGHVSDECFATERELVRASW QKWLVEE
10680	41048	A	10742	2	640	
10681	41049	C	10743	1	2358	
10682	41050	A	10744	1264	1894	RGDKPQHIVTVHRADVVKAAQL FKQARARHYHAFNMFFGAFEQL FNWRHARENFPPAGKQLCQMV VERADIFGNRHFIIVVENHQHIR TDIARVIHRFKRHACGNRAIAN DTDGAAIAFAFTAILYGIQFSCAS FYL FVVYEHGSLKT VGCPLQEV /WRTALESCKPAHIQLSGVLAI/S SIVMQSVNAMPSSWSGYSSSQA ASAARWLLARSLGIC

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10683	41051	A	10745	872	3111	VLKPNHLTERKGC/GFACGRYG KLGAWELDYSPDLDIHFLNDCP MNA MTAGERKIDGRQFYRLRA QRIMHLFSTRTSSGILYEVDARL RPSGAAGMLVTSAEAFADYQK NEAWTWEHQALVRARVVYGD PQLTAHFDAVRREIMTLPREGK TLQTEVREMREKMRHLGNKH RDRFDIKADEGGITNIEFITQYL VLYAHEKPKLTGWSDNVRIL ELLAQNDIMEEQEAMALTRAY TTLREPRFSRFSLFWGCSPLGLF DYLDLDFKIDNSHGGFRKTVLL TFLPPALLYLFPNGFIYGIGGA GLCATIWA VIIPAVLAIAKARKKF PNQMFTVWGGNLIPAIVILFVLP WFYFIPPGICTSLVYRASPPIS MPAKAVAYCVLRISGGDGSCD VICRGKVADRSKFVWPNWSKT HTEPTQSQATASNRTSATTAE QRSDEKEGNNRTRHEEQRSQN ATQHKRRERATTTQKTCSETVT PTTMNMCNEPLRRHARVLPP VLYVQRRYDESHLRISISACNV CRTERHAVHTDEIHTSTVADDC KERVAVMRLRLPLCAACRHIG DVIVSYAYVCEHRCMRLLATR RHYVVTLTTHLRRRLFLTEVNA RYVCIYDDEHSRSTVTHAHP DHQSAHYDTYVYDGTVS YMR LNTSVRLIRRAHTCTSRALMD SHSKDGRPMDYASAVVTHPL
10684	41052	A	10746	1577	1668	TINPPELAFVKTVH*SPRICLGF HIFLLN
10685	41053	A	10747	486	674	HWWKNWRCWIPVIWH*RRSR TIWRCKCKWITASTLLSRSSPSK LPPCMSGFQPVVAGRRKR
10686	41054	A	10748	254	396	ADDQIPHSKTHLKLSEVEENQ Q*EI*RPLLQ*GGMVPRCVHG RSG
10687	41055	A	10749	3	674	ISAEINRPFAIRGDLG/VVWERQ KQETGWRSWVP/WPHVHAEDII LGNPPDI/PEVTMVHLPRVEATL /APLALLTKTVWLPWKIESPRI RFQFSSHVRRAVLCEDAYYKL TLAQVEKLKNGGKVIASDELM TKFRIPNTLEFCAPVMADAPAI ALLRLSLACDLAQAMMPAFH KPISSSFVNDYAGTSFACAASD MDERRMLNAPLSRLTLVEKL RRCWIPVIRH

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10688	41056	A	10750	1	1755	
10689	41057	A	10751	1	1662	MSKPKYPFEKRLEVVNHHYFTT DDGYRIISARFGVPRTVQRTWV ALYEKHGEKGLPKPGVSADP ELRIKVVVKAVIEQHMSLNQAA AHFMLAGSGSVARWLKVYEER GEAGLRALKIGTKRNAISVDPE KAASALELSKDRRIEDLERQAL SKPDKYADVKKRISEIYHENRG RYGYRRVTLSLHREGQINHK AVQRLMGTLSLKAAIKVKRYR SYRGEISSTKLFLTAFRMIVVA IILIAITFDWNRKPTINQKVS AELNRPF AIRDGLGVVWERQKQE TGWRSVWPWPHVHAEDILGN PPDIPEVTMVHLPRVEATLAPL ALLTKTVWLPWIKLEKPDARLI RLSEKNNNWTFLANDD/NKD ANANRRHGRFGWIIFFSIKGG SPLMTNDIHGSLVYTTGKPRPKL EGDVESRQLRLADLGPLIGVDS GKGAEKSKRSEQKKGEKSVQP AGKVL PYDRFETDKWDVMDA DVRFKGRRIEHGSSLPISDLSTH IILKNADLRLQPLKFGMAGGSIA ANIHLEGDKKPMQGRADIQAR RLKLKELMPDVN
10690	41058	A	10752	1	477	SELGHAGLNGDILVWNPVLED AFELSSMGIRVD/ADTLKHQLA VGDEDRLELEWHQALLRGEMP QTIGGGIGQSRLTMLLQLAHI GQVQCGVWAAAVRESVPSLPL QLFHFTRHVVRQPLSDKIRNHQ RIGIKFPALQAFHNGAKTTGKI GADTKLLA
10691	41059	A	10753	414	794	RPSPLPTGLGDTGLGLPRFIEM EKLPLFDVAEAEQELQEGPLPEY SGPGLALAKWGLG/LKQVVM ASLFVALFLPFGRA/QELSLACL LTSLVVTLKKNNSMTAGILVC LVTVVSPGLIKVLIYDQ
10692	41060	A	10754	88	227	
10693	41061	A	10755	26	261	
10694	41062	A	10756	164	361	
10695	41063	A	10757	1347	1656	RVGRPGHRASASGGNPQNHR RLGEPVSARHPAYLSTGSGDAA AARYRRSA*SLRR*SRASSHPPE RAGTPVAPGTIDIFRWRTAARQ HRPRLYRRLPHSAA

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10696	41064	A	10758	2096	2248	RLIGLHGQNSRSVPQLPMESAS VA*RCTAALDGGVSSTSTRWLF ASCTRL
10697	41065	A	10759	1	2240	
10698	41066	A	10760	1	1082	MEHERYVGISNLMKPELYLA VGISGQIQHMYGANASQTIFA! NKDKNAPIFYADYGIVGDAG ALMSEIDFDAIIVGAGLAGSVA ALVLAREGAQVLVIERGNSAG AKNVTGGRLYAHSLEHIIPGFA DSAPVERLITHEKLAFTTEKSA MTMDYCNCGDETSPSQRSYSVL RSKFDWLMEQAEAEAGAQLIT GIRVDNLVQRDGKVVGV EADG NRVMKKILTTPIKAEDLQDIRV GDVIYL*RHRSLSVG*RAESGG* RSGRIVKRTG
10699	41067	A	10761	987	1191	
10700	41068	B	10762	1	1506	
10701	41069	A	10763	204	527	GPDRQCIGPLAE*NTGNSHKAA LRQQRAGEGRWWQKPHGEWRA ATADGRTYAISAQATAPQSPA GQSTMPRPRLWSTPALPVMIPA VTVDQRITPASVSTTKQAISA
10702	41070	A	10764	1041	3024	
10703	41071	B	10765	1	763	
10704	41072	A	10766	729	989	HLTRQGIPTDLQLRVLVSRRTK NKQKGHPHRKRICTSPSSKTKS R*NHKDGEKTEQKNWKL*NAE HLSSSKGTQFLTNGPKLDGE

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10705	41073	A	10767	89	1755	LSEGLTNRKDIHTKTPSVRRHH HQRPKCWKFPGHSGRRRK*R /CIQVGKEEVKLSLFADDMIVY LENPIVSAQNLLKLISNFSKVSG YKINVQKSQAFLYTNNRQTESQ IMTELPFTTASRKRIYGLQLTR DVKDLFKENYKPLLNEIKEDTN KWKNI PCSWVGRINIVKMAILP KVIYRFNAIPIKLPMTFFIELEKT TLKFIWNQKRARIASLSQKN KAGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYNYLIFDKPEKNQWGWKDS LFNIWCWENWLAICRKLKLDPF LTPYTKINSRWIKDLNVRSKTIK TLEENLGNTIQDIGMGDFMSK TPKAMATKAKIDKWLILKLSF CTAKETTISVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKT NNPIKKVWKDTNRHFSKEDIYA AKRHMTKCSSSLAVREMQIKT TMRVHLTPVEEVVRAGEMAKTR RCQNVKGASEGIRALALFLIN LTVHMEGNHIDGDIEIQTNRSP LQAPGEICESFTALMAMQLLSKL FWS
10706	41074	A	10768	533	760	
10707	41075	A	10769	1067	1225	
10708	41076	A	10770	1080	1250	SSGLHSWDARLVQYTOINKYN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10709	41077	C	10771	55	1842	
10710	41078	A	10772	1575	1745	SSGLHPWDARLVQYTOINKCN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10711	41079	A	10773	2798	2871	
10712	41080	A	10774	601	876	
10713	41081	A	10775	1194	1421	

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10714	41082	A	10776	587	1683	GWKFWPGQSGRRRK*/R/CIQLG KEKVKLSLFADDDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLKEIKEDTNKWKNI PCSWVGRISIVKMAILPKVIYRF NAIPKLPMTFFTELEKTTLLKFI WNQKRARIASILSQKNKAGGI TLPDFKLYYKATVTKTAWCWY QNRDIDQWNGTEPSEIMPHIYN YLIFDKPEKNKQWGKDSL FNK WCWENWLAICRKLKLPFLTP YTKINSRWIKDLNVRPKTIKLTLE ENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTVRVNRQPTTW
10715	41083	A	10777	1260	2176	SSGLHPWDARLVQYMQINQCN PAYKQNRQKQPHDYLNRCKRG L*QNSTTLHAKNS/AIN*CWKF WPGQLGRRRK*/R/CIQLGKEEV KLSLFADDDMIVYLENPIIASQNL KLISNFSKVSQYKINVQKSQA FLYTNNRQTESQIMSELPFTIAS KRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWKNI PCSWI GRINIVKMAILPKVIYRFNAIPK LPMTFFTELEKTTLLKFIWNQKR ARITKSILSQKNKAGGITLPDLK LYYKAIVTQNSMVLPLKQRYR PMEQNRALRNNAAYLQLSDL
10716	41084	A	10778	3813	3983	SSGLHPWDARLVQYQTQKN CN PAYKQSQRQKPHDYLNRCRKS L*QNSTTLHAKNSQ
10717	41085	A	10779	1312	3348	
10718	41086	A	10780	1636	1815	
10719	41087	A	10781	67	403	KFLCRPPIIRPPKTFNTLIVLARR CIQCFRFFDIACFN RVGKGFGV GHQLRGFRHDIRGFAQWTHLP DGCAFRDRCYAAGAQCENVPA LTACGDNNQRIGACWYPQGEV
10720	41088	A	10782	506	915	WASVKSPPVPCWNCWISHRRVR TCRHVRFAPGFNLAKA/VQGAA LVITGKGRIDSQTAGGKAPLGV ASVANQFNVPVIGIAGVLDGCV EVVPQY GIDAVFSILPR LAPAE VLASGETNLFNSARNIACAIGIG QGIGK
10721	41089	A	10783	1	906	

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10722	41090	A	10784	2	597	SILKLVACDNDNPLVGARGAAAVFGPQKGATPEMVEELEGQLQNYARVLHQQPEINVCQMAGAGAAGGMGIAAPVFFNGDIKPGIEIVLNAVNLAAQAVQGAALVITGEGRIUSQTAGGKAPLGVASVAKQFNVPDDLGLLAYVGDGVEV VHQYVGIDAGFNILPFLAPLAEV LASGETNLFNSARNIACAIGQG
10723	41091	A	10785	1	1140	
10724	41092	A	10786	13	628	LLIPARPPGINPYWKVSEANLI RYFQQVGDSTVLPMVLYNFPA LTGQDLTPALVKTLADSRSNIG IKDTIDSVAHLRSMIHTVKGAH PIHTVLCGYHDHLENTLLGGD GAISASGNFAPQVSVNLLKAW RDGDVAKAAGYHQTLQIPQM YQLDTPFVNVVKEAIVLCGRPV STHVLPPASPLDEPRKAQLKTL LQQLKLW
10725	41093	A	10787	3	1185	EQSGRGARDGGARDGVREGG\ SWTQQHGLPLTKVELATVAEY PVCLWQRLTLSPQYGSIP/RGD QSDGWKVDYNGPFSWKGQH FVINGIDTCSGCKFAIPVCSASA KLLPMSSQNVYHRDILHRIDSE QGTHFRVKEVQQWALGRGPFY WSYVYISHHPEAAGLVEQCNGIL KTPSQFQMGRNTLQGWGKVLPSLEGCAFSSSKSNLCSVVLKVFPKEGMVPPGDTTMIILNCKLR LPPMPLNLLASKEVTVD/YQG EIGQLLHNRGKEECVWNTGDC LTYLLILPSSVIKVEKPQPHGR TINGPDPSPGMKTWVTPPAGA VFLIGSWLRYDYGQYTWRAAS SQMLDRKGMNLASNLFHIGILG IFVGHFFGMLTPHWMYEAAMY GSCDTDNANV
10726	41094	A	10788	396	504	WKLRLERRAIQGDSPVHKNARA GELDE*AATRAIPG
10727	41095	A	10789	24	611	EILPVPGPVVIAW/AIFRRIAGES WSAIVISGLSIARHAQQRJITFT ASLAARLEIALKIVRNADGTES ASEQLYQVVGAGCKMPWQSE AMKDVLCIDKRRMLMRTTGGTE TSKYPEEKKSTEIPVAAASERGG AQLNQCATEAVVLTRVDSHL KVGDSLSTHTSFLKKFAARFGG QLEKALGLGSMQAFSDIRGL
10728	41096	A	10790	212	578	

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10729 10730	41097 41098	A A	10791 10792	1 3	1707 313	NAE/TVKMFTTSSKEDATFGLG WRVNGNATMTPTFGT/LASPT YGHTGSPPLPPICPVRRPPGYLRR LSPRFRLFGISLPQRPPGILERS LQRRRNPSGWRRRNQ
10731	41099	A	10793	1	1992	MDVQSAADDTGMLPVLVVRGPF NVVWQRLPAALEKVGKMTD STRSQGNMAVTVKPLSDSDWQ ELGASDPGLASGDYKLVQVDL DNRSSLQFIDPKGHTLTQSQND ALENAILAVIRHEICLSDVVRIR ASRRFDKTSCTDRQKILKGY LLPAGWLADVDPRLVGMNV WTLVPAALFFGAGMLFPLAT SGAMEPPFLAGTAGALVGG QNIQSGVLASLSAMLPTGQPG VVDLNGIVDRAVLAAGDAD VASGAARLSARHSIVISSMGE RCCFIRSRITRIGFLAAGVGLD QLAPDFATPVIRELLALLCLFS GGLAMYGYLRWLRNEKAMRL KEDLPYTNLSLILMVAVI VMGLWIPPTCIVDDRMAYIPG LADSPNDTIKGNTRLRISDLLH HSGGFPADPQYPNKAAGALY SQDKGQTLEMIKRTPLEYQPGS KHIYSDVDYMLLGFIVESVTGQ PLDRYVEESIYRPLGLTIITVFN LLKGFKPQQAATELNGNTRDG VIHFPNIRTSVLWGQVHDEKAF YSMGGVSGHAGLFSNTGDIALF NAETVKMFTTSSKEDATFGLG WRVNGNATMTPTFGTLASPT YGHTGWTGTVIDPVNHMTI VMLSNNKPHSPVADPQKNPTMF
10732	41100	A	10794	2	137	NCLSPVSN*WPAKTGRPLPS ATVTASTRNVLSKHWRIVVST VC
10733	41101	A	10795	271	553	ATQRQDLHFVRSPGDVAVYQTIT PEAADA VVARNPDTAQHLHC/ VYP/HTSNAALAQKYLHIAASP EVMVPLSAFHAASYSMFFMEF NLJAMWANFS

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10734	41102	A	10796	1	747	MLLGLHSLAFLQRESFGSKQS WGCQLAALLQRRITKMTTEAMK ITLSTQPADARWGEKATYSINN DGITLHLNGADDLGLIQRAARK IDGLGIKHVQLSGEGWDADRC WAFWQGYKAPKGRKVVWPD LDDAQRQELDNRLMIIDWVRD TINAPAEELGPSQLAQRAVDLIS NVAGDRVTYRITKGEDLREQG YMGLHTVGRGERSPVLLALD YNPTGDKAPVYACLLGDIITY RNGKKVEVMNTDAEGRVL
10735	41103	A	10797	444	548	
10736	41104	A	10798	951	1648	TTGRFPSPVQDSFVNNESSRMGL PDEFTLQREFERARQQALAQ W/IAAFEGGFTGIVATLDTGRPG PVMAFRVMDALDLSEEQDVS HRPYRDGFASCNAGMMHACG HDGHTAIGLGLAHTLKQFESGL HGVIKLIFQPAEEGTRGARAMV DAGVDDVDYFTAVHIGTGVP AGTVVCGSDNFMTATKFDHF TGTAAHAGAKPEDGHNALLAA /AQATLALHAIPHSEGASRV
10737	41105	A	10799	1495	2282	FDRHVGEFFLNQLETTNSLAKL HALIGVARRIFKGAHRRTVVGE GYQETFMVELFFDAVKA VTFPT EHVFLVQFHVVKGDFTAAIHTQ TELFKFGHFDARFAHINKPFGV DRFVRRSPVARHHHDVRGVGA AGNKTLLTIKINLTISTGISRFQA THVGARARFGDR*VRTDSTTV GHRDCHITGGHR/HKSFQPGHEA PQAVPLPGRFHHH*PSHDHCR* LVSLAGAA YRSPQDPVPYMPIS PGLDWVRQIVCCVMASDAD
10738	41106	B	10800	1	3618	
10739	41107	A	10801	3	490	TGIVATLDT/GRPGPVMAFRVD MDALD/LSEEQDVSHRPYRDGF /ASCNAGMMHACGHDGHTAIG LGLAHTLKQFESGL/HGVIKLIF QLHRYAAHAGAKPEDGHNALL /AAAQATLALHAIPHSE/GASR VNVGVMQAGSGR/NVVPASAL L/RQPTRSALNTTQQLNAR

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10740	41108	A	10802	1	513	MGIESLQAFLRSAGALGVWVY TFLERLIPTGLHHFIYQQFISGP AAVEGGQIMYWAQHLQEFSL AEPLKSLFPEGGFALHGNKIFG AVGIYLA MYFAAAPENRVKVA RLLIPTPLAAMLVVIPEPLAEFTF LFISPILYAVHAVLTASMPVM YLPGVVGNMGEGKID
10741	41109	A	10803	1	4941	
10742	41110	A	10804	1	1083	
10743	41111	A	10805	1	1363	MPVRKNMIMNEGNITPTNGC RIRASCGVPMICINQLKDGK PSPLTAARMKQKAILFLIRTV TDTHVVEDTGRKGSRKANSRE RFPDAFPEFHGFADFRVLRQAM IQIWLVSVMVQHVNVCCTDAC RIVQTRIVVTAGFQLSNASLVA MRRWVYRVRIQYRRTQTAV FHSTHGNRYREGQPVGTLD KANENVELVHYAQPLLNEADS LAKVMPSPDILKQRRWLGLQM LEGDIYSRAYAGEASQHLDAAL ARLRNEMDDPALHIADARYQCI AAICDVVSNLTAEPSRFTTAV DKIVLNRFLGLPIFLVMYLMF LLAINIGGALQPLFDVGSVALF VHGIQWIGYTLHFPDWLTIFLA QGLGGGINTVLPVPQIMMY\ CFSSFLKTPALACREIFVPLMRL RVNLRWYPPVL*RISSWWTNSRI PTTFSTRGSACWRATPAK
10744	41112	A	10806	199	1083	RLFEHPRLGVAAVENGALGKR SAVVLPFGDAVNHKTRFIEFVK SAIEGNRLTVRAIGPQFTTPV IVFNQGVSGAQNIAGRAVVLLQ TNSFGTGEIHKETLNILHRPAPA VD*LVVITDDHHFAGVARQQA DPRVLNVVGILEFVHQDIGKTF AVVLQDMRLVKPQLVSAQQQL GEVHQARAVTRFLIRLIHLLPGL LHRITVALNMMRTQAFIFLAVD VPHCLPRRPLLVEVHGFQDTQ KVAAWRGHRFALFVIKAEVQ RNVHWHRRVKIGWAEKRNAL RQKAGNFQMRQ
10745	41113	A	10807	49	273	DFLGRGAFNVINIGAWASRPVQ GSTVDLSHGLHLVLHLKNNL*F YGFDSHFLKSFYKGTSSISIQVE VGISQGNL
10746	41114	B	10808	91	2183	

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10747	41115	A	10809	8	219	FSLWPL/KKFSNRFLKKKPMEF GSWTTRELIASFAGVRAITLA GVLSIPLLLPDGNVPARYELVF LAAY
10748	41116	A	10810	84	509	
10749	41117	A	10811	3	163	ENTTWLYAD*NAGRDADFGHA KRKWTWLTWLAIAAVATAMAN RQPAGLFAFLT
10750	41118	A	10812	1	707	MGWRMGIWLRVFTVAKHLQR AESDQIGFRLKEHCWKRYAVR HPVKDVSFGSPVLTVMNRAQ/ SN/PARTVGVWLRMFRRLKR/ RKPRPLPLSPLHMDV/HAGNLV HSASGLKLIDW/EYAGDGDIAL ELAAVW/VENTEQHRQLVNDY ATR/AKIQPAQLWRQVRRWLP/ WLLMLKAGWFEYRWQ/TGD RQFIRLADDSWRQLHRSNKES RELVARLRVFAQSSGGAVDQE GGRVQCFREGL
10751	41119	A	10813	1	227	SFINVERYRAEPTADAAPLKR GAFGSWLPPEPDHYAED/DHQQ YLHKNPYG YCGGIGGVCQAY KIVQIQYIARTA
10752	41120	A	10814	1	283	
10753	41121	A	10815	315	569	
10754	41122	A	10816	65	580	SDRS*IPVRPTHDRSGNRHDGSS GYCRCYG*HG*HRGIRYRCWPE KSQTRSGLLPLTVNYQERTYA AGRIPGSFFRREGPSEGETLIA RLIDRPIRPLFPEGFVNEVQVIA TVVSVNPQVNPDIAMIGASAA LSLSGIPFNGPIGAARVGYNDQ YVLNPTQDELKESK
10755	41123	A	10817	235	1236	TDHDGRNDTQRIGSGERNRPF NANTAHHQCRFAGFALFCGEIF TTNQRRQPHQRRDNTNTHGSD GHHGINTLSNANQHEGIGHFVN RTAHIERQHQTHDHRQHNNAA NSGTEVSQ*AR*HAAY*RYVAE REIHSGDRCGKRNSAHKIMPG WWCALPDTAPSLSKVVFVKGC PHLCPWCANPESISGKIQTVRRE AKCLHCAKCLRDADECPGSAF ERIGRDISDALEREVMKDDIFF RTSGGGVTLYRGEDPAEDARY AHTNQPRQNKAVVDDEATDV GGAGTVKLNRCQIARISQDVI TVASRCEHGFCPCDTVHRHD GDHTGTEDFVF
10756	41124	A	10818	1	400	

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10757	41125	A	10819	783	1116	SVLHLYEQNTEVHDTRGYRPI KTLDIVPAFEASHLLWQSYENS WEQIFSAVGASWQKHGYTDV LTQLGYGQRHWNIDIDAGATL RWEKRPYDGDREHNLVVEFD MTFRF
10758	41126	A	10820	3	474	TCGEAASIVDRIRGFFEPSSILV STLVLTLRPTGLPLVTDLSLPM RLLPTEIMAGSPIRS/RDISLGDD PGINGQRAQGTWERWTVRADE PQAFHIEGVMFQIRNVNGAMPF PEDRGWKDTVWVDGQVELLV YFGQPSWAHFQFYFNSQTHKV GPRAVA
10759	41127	B	10821	93	786	
10760	41128	A	10822	191	748	GPATPRQPFKVLASLGRVLVQHG GRWDAQHLHNAVHLVDLIGAT EEQLSGVHLHKDAAQGPHVNG QVVGCAQEHLR*AVEAALDIL VDPLAKLAGAAEVHNLGGAAL GVAQQDVFGLGAVNDAAEQ AWPERAVPCRAAAPASGSGSA RRRGSCCAGGORTGCRTAAQIP STSGFRNMKCRFRCTI
10761	41129	B	10823	1	2724	
10762	41130	B	10824	116	2458	
10763	41131	A	10825	1	1317	

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10764	41132	A	10826	99	2052	NPADGRTGFTLCATGEALSSAT IAAAERRQALQEGCDDILS/HG DADMVSMAR/PFLADAELLSK AQSGRA/DEINTCIGCNQACLD Q/IFVGKVTSCLVNPRACH/ETK MPILPAVQKKNL/VVAGAPAG LAFA/FNIAKQIPKEEFYD/TL/ RYYRMIIEVTGVTLKL/NHTVT ADQLQAFDETILAVG/IVPRTPPI DGDHP/KVLSYPDVLRLDKAPV/ SN/KVAIIGCGGIGFDTAM/YLS QPGESTSQNIAGFC/NEWGIDSS LQQADCDAPAKASKPGQGLGK TTGW/HRITL/LSRGVKMIPGV S/YQKIDDDGLHVINGANQGS DMLRLQGE LDSASRIGRRSAAP KLGLSLNDGRFCFINCHILDRLPY KGLVPACSWNGGSLDPLEGRP DEPHVEVLGIPPAAMLDAQPRL ASTLNGCLGVA GPYEDERTQE GLPGPRDTAAEEVLGVQTTGGA GSRGRVVRGPQADLPSASGPGA ACWSMSPPPDQPPCVLAHGFFR RTPSTQQRPAEQCFHSPAPLEL PLSSTSSILSFAEYGNAMAWLY RGKILPSGTPDDDLKAQSANDGN PDPTMEKAFIQLIHDGIRSIAMS NPILSCRRYGRYQEWCLTIPAV FISAPYVRRYVRFHEHQEGGGV RQEATVREIPLAIAVIPNSRTPC
10765	41133	A	10827	1	525	DAMVSSWNRAAPNTIPTAAKA GGNYLSLLVGSEARRHGYQE GIALDVNGYISEGAGENLFEVK DGVLFPT/PGFTSSALPGITDAI IKLAKELGIEVREQVL.SR/EKS LYLADEVFMSGTAGEITPRRS NGYSGLAKRCGPVTKRIQH ALQGVYSWVTPGYFESVRCTA
10766	41134	A	10828	8	573	REPAGENGPPVCDGAMLDLKA/ WGSECHQQLTGRDNQIQRSIY LLPERAKLAELRLVIPGQVDY LQHIEELAAFIKGLGDVPLRLN AFHAHGVYGEAQSWASATPED VEPLADALKVRGTCTRPDKTRQ ASHQALCANCMRRERLIRPTV RHKPVGMIRDRKRIRHYAPTA GCGVNALSGLRFGTDL

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10767	41135	A	10829	1	479	SNATNGIEPPRGYVSISKASKDGI LRQVVPDYEHLDHAYELLGEM PGNDGYLQLVGIMQKFIDQSIS ANTNYDPSRFPSGKVPMMQQLL KDLLTAYKFGVKTLYYQNTR/G RR*RRTRRS GAVNPGTMGCESG ACKNPGYLRMPGCRKRTPLIPA LPGFGFW
10768	41136	A	10830	1	443	MDSLMDMLASTQGRMDDQQR VTVSSLPGFQFVGSKAYKPSRR PDKAFTPHPASQYQILHAPLVA AIVSGLTAARVVFVRLQQPSLG VLSNTSGCDATNVVGRQLQDNA SVSPGIVHTDSVIWRSCQVRRS AVHTLRQKTRLFDAVDA
10769	41137	A	10831	1	323	MDLVTGSRKVIAMEHCAKDG SAKILARRCTMPLTAQHAGHML VTELAVVRSFDGKMWLTEIAD GPTSQAQPAATYRIPLSNSRV RRYRHYRYRYNLSIRKKRHRPL
10770	41138	A	10832	526	975	TPYPAYVQHVTGRIJRRGKRR RQCLPVLESFHNQKSRGETE GASGFSLQHLHGDSRAA PGPY RVSTAAADSGGRAGSSAPSAV PRGC*GPSLAPAGRSQR*HRGG GQLSPAAPTANKAAGLGPPA RLNFFIRAQCDSRINDITR
10771	41139	A	10833	1906	2049	PLSIIEADFRIWANAG*RMVAGI KPSIARVPLVLQVSALEVPEQC YRH
10772	41140	A	10834	1	808	MPKPNTRWSAWGLRRLKRW SVARGSNLNRSVQYEFTGRGD RIGWVKGIDDNWHLTLFIENGR ILDYPARPLKTGLLEIAKIHKGD FRITANQNLIAGVPESEKAKIE KIAKESGLMNAVSPQRENSMA CVSFPTCLAMAEAEERFLPSFID NIDNLMAKHGVSDHIVMRVT GCPNGCGRAMLAEEVLVGKAP GRYNLHLGGNRIGTRIPQITRRI EHRANDARTHRKVAEAFTRFA LFRPAPYQFIKRRQDFRLVMFSI YMPVPS

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10773	41141	A	10835	248	830	HHYRKMNIQQSKWLIIVTVCDG KLNWLLSGSKVCCTWMLCVQ/ SEPELAKAWIFANLLAAFLIDDI IQPSLDFPPRRAEITIAADGTISA LNPGDPANTVAPVGRLLKLVKA TGSEVQRGDDGIFRLSAETQAT RGPVLQADPTLRVMSGVLEGS NVNAVAAMSDMIASARRFEMQ MKVISSVDDNAGRANQLLSMS
10774	41142	B	10836	328	481	
10775	41143	A	10837	14	675	FRKLQVCWLPRPHLRPWWTCK PRWFGSCLRVFL/LEIVI/GDV/ WGLRLWSALGVAFFG/WAFITS LQAKRGWMRIVPIILLAAALVS VRPLQDWAFGATHTAQTQTHL NFTQIQTVDELNQALVEAQGKP VMLDLYADWCVACKEFEKYTF SDPQVQKALADTVLLQANVTA NDAQDVALLKHLNVGLPTILF FDGQGGQEHQARVTGFMDAET FSAHLRDRQP
10776	41144	A	10838	1	1413	GMALTYTALGLVVAAGLQFQ AALQHPYVLIGLAIVFTLLAMS MFGLFTLQLPSSLQTRLTMSN RQGGGSPG/GAILLYIAQSGNM WLGGGTLYLALGMGLPLMLI TVFGRNLLPKSGPWMEQVKTA FGFVILALPVNIAPGSLDKALNQ YAAHSGFTLSVDASLTRGKQSN GLHGDYDVESGLQQLDGSGL QVKPLGNNSWTLEPAPAPKED ALTVVGDWLGDAENDVFEH AGARDVIRREDFAKTGATTMR EVLNRIPGVSAPENNGTGSHDL AMNFGIRGLNPRLASRSTVLM GIPRPLRPLRSAAFTGSRFARQ HGCHCTWYAVVVRVTDTS VGGVVNFVTRAIPQDFGIEAGIL MSDLKHGSLVGACLGRLPGPA VLYLAVAVLGVRVRRGVVLVC PLGGTGLGYSCGGAFQFAAS CFLGRYGVVQGVHVCFGPRSV FLDDCLRFDLPLVWLSCLR

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10777	41145	A	10839	1	908	LLKPFHVIAIATGRSLAVFCMG RLRTICSHA TPPASAI/LLYI/AQS GTWGGGGTLYLYALGMGLPL MLITVFGTRLLPKSGPWMEQV KTAFGYVILALPVFLLEVRIGD VWGLRLWSALGVAFGGWAFIT SLQAKRGWMRIVQJILLAAALV SVRPLQDWAFGATHGTQTQTH LNFTQIKTVDELNQALVEAKGK PVMLDLYADWCVACKEFEKYT FSDPQVQKALADTVLLQANVT ANDAQDVPTSAFFISPPNALVAI IVQLRFGDFYNRVSKGSRPTVF GRTLKARRITLSEKSLKAKIH
10778	41146	A	10840	3	808	SSGGHGRRAGRLQHPLLRVH VPVVDTSVPCSRQLQWHHLPL CPGQLQHGHFHGPWCFFPSG*G *GQGGRLPGSAVQERGCARYP GPHEVVCHVPLLPAAALLPLQR L*QLCRGL*PPLPLGQ/PTASGV ETIATSSCSCCHSVHTWWASWP SAWSTC*TTLRGWEPTPPSRIL GSCGPHCRGDVDRGHVHPGE* AFQSLVPCQGT PKGPMAPP*VG RGVSP/PGTRVEAALSCESPFA RQSMCFNLHTHSIDPKQSRRPY SDNVGKE
10779	41147	A	10841	2	646	CSWQPAVPTQPQAPGSAAPRQ LPGHSRGAQPALVSPHKGLTPV PGTPA/PASTPPAPAGGGLPSP AAGAPPAHCPG/HPPAPATAAP VPGLCGPCSLPACQTR/PPTH VNTKKRV/PG/VRPAARRPWPP GCTWRGARTVTFHLQNLPGVN CQMLTVGRSGIRPTCTIASCSV NKLHPQMHPATQPHHRMALSP SHSEGPSHCWGLSLGDISPIR
10780	41148	A	10842	3	550	

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10781	41149	A	10843	2	1132	LCLVMILYTRRRWCKRRRVQP PQKSASAEAAAEIHYPVSLIGG HGRESLRNARVQGHNSGTL RETPILDGYEYDITDLRHHLQR ECMNGGEDFASQVTRTLDLSQ GCNEKSGMDLTPGGDGRKARL MNKYKDNIIATSPVDSNIIQQAT LLSHTSSSQKRINNKARGMHV *H*GEGDSTGEAENDPQLTFYT DPSRSRRSRGRNDRGGRNKTT LTLISITSCVIGLVCSHVNCPLV VKITLHVPEHLIADGEPVLLRM GSQLDASDWLNPAQVVLFSQQ NSSGPWAMDLCARRLLDPCEH QCDPETGRREHRAAGNCQRDH ARAHSVWLGSPPYHDTSLRWS PMYTTMESAPHAFFPSVTADAE
10782	41150	A	10844	3	3935	HASGPGGLKMLAGLCALLACC WGPAAVLATAAGDVDPSEKLE CKLKSITVSALPFLRENDLSIMH SPSASEPKLLFSVRNDFPGEMV VVDDLENTELPHYVLEISGNTE DIPLVRWRQQLWLENTLLFHH HQDGAQSLPGQDPTTEEPQHESA EEELRILHISVMGGMIALLLSIL CLVMILYTRRRWCKRRRVQP QKSASAEAAAEIHYPVSLIGGH GRESLRNARVQGHNSGTL SIR ETPILDGYEYDIT
10783	41151	A	10845	184	357	ALQGWSKNLHPEDIQLGKTPP P*QVAQEGGWSRRVSGDTWIL EEQPGSTTRRVSVGM
10784	41152	A	10846	226	609	VILSSFDLIKHGILLEISDSIQFRG CKRSRIPELGGLEELW*PGDCR QPRPWRAGRHLQPGSLGSLVS KHQLRGSRKTL/YSAFRKCHLL SVWEGKPLKI*RGDQVADSSQK KQLAADAHTPYRGGDI

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10785	41153	A	10847	20	1317	SSHQKQMLAPCFLGSLQNQWH HTAGKGK/WVLGTCAFGEQLA ASGHMKETRADRSKKLFRHYT VGSYDSFDTSRGGVRKPYAGF FPDLQDICDEQPRPLHSTLRPAC GGIQPGKQQMPFAKTDTCASD KHVEKKLERLIHQAVSDAPEPS RVVKGIFIGLPCARLWVVPYL MGHVQEVMTAEGYERASQATF REQMQEVPCLQRSTGSSMKT GNKIRRVTDNVLTRSGPLINDIL SVAVDSSSVSLIWMHLFSSHPL GIVRYWCGMGISCKLLLTRVC YLITPLDLERFPFNTQVTFPE RRVSVFLLPLSWCLDTRLPREP GCRSRDSFTHRVPFYSVTPTSG DVPGSHPFCDKPVRRGDDPYIR NDRGTLYSTLQFISTCVQVVG YGHLPGFKSDAAQAVPRLLSQ KRDQNHKEEITDGDERP
10786	41154	A	10848	1930	5781	RAKSPANIHMTGNSHITLTLN VNLGNSPIKRLRLASWIKSQDP SVCCIQETHLMCRDTHRLKIKG WRKIYQANGKQKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQQEELTLNMYAPNTGAP RFIKQVLSDLQRLDLSHTLIMG DFNTPLSTLDRSTQKVNKDTQ ELNSALHQADLIDYRTLHPKST EYTFFSAPHHSYSKIDHILGSEA LLSKCKRTEIHTNLYSDHSAIKL ELRIKNLTQSR
10787	41155	A	10849	1	3654	
10788	41156	A	10850	1	5127	
10789	41157	A	10851	209	3816	QGRPTFRFRKYREHHKDPREE QLQDT*SSDSPKLK*KKCK*GQ PERKVKLPTKGSPD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKKREKNQIDTIKNDKGD ITTDPTETIQTIREYYKHLANK LENLEEMDKFLDYTLPRLNQE EVESVNRNPTGSEIEAITNSLPTK KSPGPDGFTAEPYORYKEELVP FLKLQFQPIKEGILPNSFYEASII LIPKPGRDTTKKGNFRISPLMNI DAKIL
10790	41158	A	10852	1	3663	

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10791	41159	A	10853	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFSSAPHHTYSKIDHIVGSK ALLSKCKRTEIITNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYWVHNEMKAIEKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALLNAHKRRQERSKIDTLTSQ LELEKQEQTHSKASRRQEITKIR AELKEIETQ
10792	41160	A	10854	1	3354	
10793	41161	A	10855	1	5073	
10794	41162	A	10856	1	3235	
10795	41163	B	10857	1	3300	
10796	41164	A	10858	1	2563	MKAIEKMFFETNENKDDTTNQ LWDAFKAAEEVESLNRPTGA GAIINSLPTKKSPGPDGFTAEFY QRYKEELVPLLLKLFQSIKEE LPNSFYEASIIIPKPGRDTTKKE NFRPISLMNIDAKILNKILANRI QQHIKLLIHHDQVGFFPGMQG WPNIRKSINVIQHINRAKDKNH MIISDAEAKAFDKIQPFMLKTL NKLIGDGTIFYKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLLFNILLEVLRAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS GYNKINQVKSQAFLYTSNRQTESQ MSELPTTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPK VIYRFNAIPIKLPMTFFTELEKTT LKFIWNQKRAHITKSILSQKNK AGGITLPDFKLYKATVTKTA WYCYQNRDIDQWNRTEPSEITP HTYNYLIFDKPEKNKQWGD KDSLFNKCWENWLAIRKLLD PFLTPYTKINSRWIKDLNVRPKT IKTLEENLGITQDIGMGKDFMS RTPKAMATKAKIDKWDLIK LKSFCATAKETTRVNRQPTTWEKIF ATYSSDKGLISRIYNELKQIYKK KTNNPIKKWEKDMNRHFSKED IYAAKHKMKKCSSLAIREMQI KITMRYHLTPVRMAIIKSGNN
10797	41165	B	10859	1	3420	
10798	41166	B	10860	1	4019	

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10799	41167	A	10861	1	1825	MVKGSIQQEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHHK STEYTFFSAPHHIYSKIDHILGSK ALLSKCKRTEIITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYWVHNEMKAIEKMFFETN ENKDDTTYHNLWDTFKAVCRGK FIPLNAHKRRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERINKIDRLRLARLIKKKREKNQI DAIKNDKGDITDPTEIQTIRE YCKHLYANKLENLEEMDKFLD TYTLPRLNQEEVESLNRPIGTAE IVAIINSLPTKSGPGDGFATKF YQRYKEELVPFLKLQFSIEKE GILPNSFYEAHILIPKGRDOTT KENFRPISLMNIDAKILNKKLA KRIQQHIKKLIHHDQVGFIPGM QGFNIRKSNVQHINRAKDK NHMIISDAEAFDKIQPFMLK TLNKLGIKYLGIHLTRDVKDI.F KENYKPLLKEIKEDRNKWNKIP CSWVGRINIVKMAILPKNILITL QLLLVLPELSTLIPLWLPALAGO
10800	41168	A	10862	1	4449	
10801	41169	A	10863	824	3693	AWKGTDDRSTRQKVNKDTQEL NSALHQADLIDYRTLHPKSTE YT/FFSAPHHTYSKIDHIVGSKA LLSKCKRTEIITNYLSDHSAIKL ELRIKNFTQSRSTTWKLNLLLL NDYWVHNEMNAEIKMFFETNE NKDDTTYQNLWDFAKAVCRGK FIPLNAHKRRKQERSKIDTLTSQL KELEKQEQTHSKASRRQEITKIR AELKEIETQKTLQKINESRSWFF ERITKSDRPLARLIKKKREKNQI DTIKNDKGDIT
10802	41170	A	10864	1	3297	
10803	41171	A	10865	1	4791	
10804	41172	A	10866	3	3316	
10805	41173	B	10867	1	3415	
10806	41174	B	10868	1	4753	
10807	41175	B	10869	1	3384	
10808	41176	A	10870	1	3345	
10809	41177	B	10871	1	3772	
10810	41178	A	10872	1	3720	
10811	41179	A	10873	1	3894	

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10812	41180	A	10874	1	3335	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVVHNEMKAEIKMFF ETNENKDDTTYQNLWDAPKAVC RGKFIALNVYKRKQERSKIDTL TSQKLEKQEQTHSKASRRQE ITKIRAEKKEIETQ
10813	41181	A	10875	1	3780	
10814	41182	A	10876	1	3852	
10815	41183	A	10877	1	3345	
10816	41184	A	10878	965	4362	TWKGTTSRCKIMPYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFSSAPHHTYSKI DHIVGSKALLSKCERTEITNYL SDHSAMKLELRINKLTQNCSTT WKLNNLLNDYVVHNEMKAE IKMFFETNENKDDTTYQNLWDA FKAVCRGKFIALNAHKRQERS KIDTLTSQKLEKQEQTHSKA SRRQEITKIRAEKKEIETQKTLQ KINESRSWFFERINKIDRPLRLI KKKREKNQIDT
10817	41185	A	10879	1	3921	
10818	41186	A	10880	1	3988	MTGSNSHITILTNINGLNSAIK RHRLASWIKSQDPSVCCIQETH LMCRDTHRLKIKGWKRIYQAN GKQKKAGVAILVSKTDFKPT KIKRDKEGHYIMVKGSIQQEEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSILDR STRQKVNKDTQELNSALHQAD LIDYRTLHPKSTEYTFSSAPIHI TYSKIDHIVGSKALLSKCKRTEI ITNYLSDHSAIKLELRINKLTQS RSTTWKLNLL
10819	41187	A	10881	2	462	YFTDRLRLARAGTPL/IMFGTIA RSGVRIVSREPLNRRAILIALSL AVGLGVSQQPLIQFAPEWLKN LLSSGIAAGGITAIVFSLAGHPA LATNAQPMFAFLHQTTFFQNL IRVKEAICSDQFNMTMFRGLQG NSACTKCNPRCLNELTPTE
10820	41188	B	10882	16	163	

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10821	41189	A	10883	2	1509	RDEVNGCIRLVYDMYSTFGFEK IVVKLSTRPEKRIGSDMWDRA EADLAVALEENNIPFEYQLGEG AFYGPKEFTLYDCLDRAWQC GTVQLDFSLPSRLSASYVGEDN ERKVPVMIHRAILGSMERFNGIL SEEFAGFFPTWLAPVQVVMNI TDSQSEYVNELTQKLSNAGIRV KADLRNEKIGFKNRSGELSHLP PINQSKPRNFPSAALPQVPQPTH LSQRPRASPKPPPPDPERVELSL EEHREMLEGFYEEISKGRKPTLI LRTQLSVRVNAILASLESVKPL YTMALGLLVKYPDSALGQLRIE STVDGSRLYITGNGVLFGHVKF HAFLLYLGYPQAAREVRIMQF CHTLREFALEYRTCRERVLQQQ QKQATYRERNKTRGRMITETE KFSGVAGEAPSNPSVPVAVSSG PGRGDADSHASKSLTTSRPED TTHNRRSRDRHGPRGCQVCSA QPSLLRAVPVADMRLMTGKD CPPCPGKRLRGAELGPL
10822	41190	A	10884	296	757	ISRRRRALSPKAESSLSILPRE KRSPSRTWILTPRRLFSLAISSKS AGNTLSSRIFK*KA*ACK*RG VSTRCRIFLALFIVTIKHLMMR STASNRQYSISIWTILPCWSARC FSIKIAGIPAEPPRYLLISPGLTG LKINFFTTVSFW
10823	41191	A	10885	1	519	MGLPWQVGMGAIFWGAIGLLL LTIFRVRYWMIANIPVSLRVGIT SGIGLFI GMMGLKNAGVIVANP ETLVSIGNLTSHSVLLGILGFFII AIIASRNHAAVLVSI VVTLLG WMLGDVHYNGIVSAPPSVMTV VGHVDLAGPIGNSLV/GCYPFAI LRRFSDGSGGLGRNQI
10824	41192	B	10886	1	3489	
10825	41193	A	10887	817	1528	WGSRDNRDEIRNTLVLDTLRLQ RVCAQRAFLVLVFLGKVTFEEL NFTFILVIQNVRGDTVEPTVVR DNHRTARELQQGVFQRAQGF IQVVGWVFEQQHVAANLSRCR LVNTPTQQVRFSTATFRVIWV TPTAGKLSGGFLFKMYGLPAA AIAIGTLLNQKTARKWAVL*SP PALTSFLTGITEPIEFSFMFVAPI LYIHAILAALFMWKFVPEKTR KTLLEEALSNRIAAE
10826	41194	C	10888	1	573	

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10827	41195	A	10889	2321	2554	WRKRCVKVRNLSPLCLPDRKL TLPCCSIAIRNCIAKL PVS* L WV ALWGWVTGRLRLNLIFLTRK RQKLSSSQGSRW
10828	41196	A	10890	1	4350	KULELRSKREAGMLERSSSRMV TCSQWAATRNPPVVALPIYGFI RCLVPFGLLHIWNVPFQM QIGE YTNAAGQV FHGDI PRY MAGDP TAGKLSGGFLFKMYGLPASAIA IWHFVKPETRAKVGIMIFAAL TSFLTGITEPIESFMFVAPILYII HAILAGIWHQSQVFFWGCVTVR RSRTV
10829	41197	A	10891	137	686	
10830	41198	A	10892	3	3831	SIGMMGLKNAGVIVANPETLVS IGNLTSHSVLLGILGFFIIAIL/AS RNIHAAVLVSIVVTLLGWML GDVHNGIVFAAPSVMTVVGH VDLAGSFNLGLAGVIFSMLVN LFDSSGTLIGVTDKAGLADEK GKFPRMKQALYVDSISSVTGSI GTFSVTAYIESSGSVSVGGRTG LTAVVVGLLFLVLFLSLPLAGM VPGYAAAGALIYVGVLMTSSL ARVNWQDLTESVPAFITAVMM PFSFSITEGIAL
10831	41199	A	10893	6	146	MCSEK VAMCCDDDDDDDDDD DDDDDDDDDYSCSHGFWD FSY TWNTSPQGHGLMGSPHGLVE IRDKLGDRTQRVYIQRITGNGL EFENPCKQFRGLTRMYIRRLTR LSVQWYMALE RPPVLQKYRY RGSKAHETSHSMSTVTSNEKQ DNTRIDTQGTNR/VATLRHRE TVLANEVAPYAATDNVLAAS DVGDVSWKLPVAQCFSPCFAV GTPPLHTWQ/SGLLQECQEHQQ VTDTPYHCPKPNVTPSPK
10832	41200	C	10894	1	1197	
10833	41201	A	10895	1	763	
10834	41202	A	10896	2	412	LFEFTLDVKVRESPI LFRDESM RTACSPDGLCSNGFGLKCPF TSRDFMFKRLGGFEAIKSAYMA QVQYSMWVTGKDAWFFANYD PRMKREGIHHVVVERDPQYMS DFNEMVPEFIEKMDALAEIGL TVRELGI

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10835	41203	A	10897	3	663	ARGKKPPRRGKEDFWDLSIATR VSVNPIKFPVEA*PFLKPLQV SVGPLGGRLPLPIGNLLQVAD GTLSTGTDLLEMVMARVALV QPHEPGATTVPARKFFDICRGL PEGAEIAVQLEGERMLVRSGRS RFSLSLTPAADFPNLDWQSEV EFTLPQATMKRLIEATQFSMAH QDVRYYLNGMLFETEGEELRT VATDGHRLAVCSMPIGQSLPSH
10836	41204	A	10898	377	1077	WRGQRCLASVFFPRHPGAEGRG RPVFAETIFL**SRRGLAR/TGR RKLPVKLKAADFPNLDWQSE VEFTLPQATMKRLIEATQFSMA HQDVRYYLNGMLFETEGEELR TVATDGHRLAVCSMPIGQSLPS HSVIVPRKGVIELMRMLDGGD NPLRVQIGSNIRAHVGDFFITS KLVDGRFPDYRRVLPKNPDKH LEAGCDLLKQAFARAAIILSNEK FRGVRLYVSESQSLKSRQ
10837	41205	A	10899	591	871	VRGFPSGAEQLYG*SVSLILLP NLSNSG/RTGFPVAPLPYSKSPS DFMSLLISTVPGSQL*QPIQRAE LVCTTCSPIVSAPTQAPTQGA SH
10838	41206	B	10900	1	1765	
10839	41207	A	10901	1	1177	MKSLIIVNPADICGRTCEVAC VVAHPSEQELNADVFLPRLKV QRLDSIKRFWEQMMRIVTAAV MASTLAVSSLSHAAEVSGBDN WHPGEELTQRSTQSHMFDGSL TEHQRRQMRDLMMQARHEOPP VNVSELETMHFPGMLFETEGEE LRTVATDGHRLAVCSMPIGQSL PSHSVIVPRKGVIELMRMLDGG DNPLRVQIGSNIRAHVGDFFIT SKLVDGRFPDYRRVLPKNPDK HLEAGCDLLKQAFARAAIILS EKFRGVRLYVSENQLKITANNP DQEEAEIILDVPYSGAEMEIGF NVSYVMDVLNALKCENVRMM LTDSSVSVQIEDAASQSIAAYV GMPMRLEGSPLGNPEFQKISSP CALYIALCSKARHHTGRYLGLC
10840	41208	A	10902	527	925	

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10841	41209	A	10903	1	1514	MAFGLFWLIWILMSTITRIGID MSLALFTEMTPPPNTGGGLAN ALAGSGLLILWATVFGTPLGIM AGIYLA EYGRKSWLA EIVRFIN DILLSAPSIVVGLFVYTIVVAQM EHFSGWAGVIALALLQVPVIRT TENMLKLVPSYSLREAAAYALGT PKWKMISAITLKSAVVGNMTRI L/LRMAPIVVKTAPLLFTALSNO FWSTDMMQPIANLPVTIFKFAM SPFAEWQQLAWAGVRNLFYY GKFHALKNINLDAKNQVCVC YNQCTESLVNGLYANAAHLVS VGQRSTGNSSVIKARQSSIRP MIVKYSALCLCRMRSERFIRRT KHKRFDRLQCTCRPDKRSASG NLAFVISLRPVLVAVVFALFA AFPMFSDVSIQLRHIFANFLPA TGDVIQRYIEQFVANSNKMTAV GACGLIVTALLMYSIDSALNTI WRSKRARPKIYSAFVYWMILTL GPLLAGASLAISSYLLSKQWAI DIDSVNRLGAILITALITGDT
10842	41210	A	10904	900	1250	WYACDQCQTCLPDHAPECAVA *AKTCCTA IETGT YRQSGRERK QSAMVL*RVRVLL**RRETACH VRAGLL*S*GTALGGHYRRLQQ *NSTGRHAGSGGTPLQRSSVV SSGVADG
10843	41211	A	10905	626	850	LRFLVFNILSRYSLISTVQKFS AMLNGTLPLENIIH*LRNITAIM NLVIFHGLSA*SVCIYIPGRGSV MSDRV
10844	41212	A	10906	307	858	
10845	41213	A	10907	698	1115	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTA AKNLA EAFEHYNEWHPHSGTRRRAR FSVRATYAAGRLATIPGYRGGP LGLMCGQPNRKPTDGANERLT MIRAATAMSE
10846	41214	B	10908	1	721	
10847	41215	A	10909	1	2615	
10848	41216	B	10910	1	1164	
10849	41217	B	10911	1	1930	
10850	41218	A	10912	689	1033	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTA AKNLA EAFEHYNEWHPHDGPESVFM PSR*APMTR*KIYSPPYRSSQR AHRHA

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10851	41219	A	10913	393	686	NPSQLWEAAPQWKWIQAGAK VSCQLSRAADQLGRQHHISDPC FSIVPLIL*FAAYFPINPAVLKLA PVALYADAIRYNARTPLQGSLL PLTRLVWA
10852	41220	A	10914	1313	2370	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHRANPDANVV SEDLVRESVGKSVVNLHGVVD MAAIRQLKATHDTSVSSEQVD NVRMLLAMVDDFRCVVIKLA ERIAHLREVKDAPEDEVLAAK ECTNIYAPLANRLGIGQLKWEL EDYCFRYLHPTYEYKRIAKLLHE RRLDREHYIEEFVGHLEAEMK AEGVKADEVYGRPKHIYSWRK MQKKNLAFDELFDVRAVRIVA ERLQDCYAALGIVHTHYRHLP DEFDDYVANPKPNGYQSIHTV VLGPGGKTVEIQRITKQMHEDA ELGVAAHWEI
10853	41221	B	10915	1	1556	
10854	41222	A	10916	1566	1947	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPH/ECAGLSLAT GISAAAGL*WARRSFIQRDSRD PRYRAPIRIHPLPGANHLRQ
10855	41223	B	10917	1	1571	
10856	41224	A	10918	2024	2589	QDMQNLVLVRETSVKPFYPL KVPEAFR/RIQGRKGEGEGAY VYRSAFSVFQKPRFSCALGGAJ AASWAGGGAPSPCGRAELPW GPGVGVAGTVCPERPRRERRL RGEREEEAADKVMARRWRKSR RRKRKEMEERMSPEETEGTNF DFAGEAVGQAERKGFAPSAAE ESFHEEEKRRRKEQSDLTF
10857	41225	B	10919	690	2724	
10858	41226	A	10920	3892	4338	

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10859	41227	A	10921	2573	3473	ANGARLALPPLGTFQGRQLRRR RPRWRRRRPGEASGPVMRLRG PRPGASAPWDGGGQVAR*WC PFPSQGWDDGSGGGQGDGAR FRTHRAKVQDGDGR*DEADG VHRHAPLQGLVLVQVGVADE REDDAGNEGLQHLQQPGYGGH IASDLAGPGPGPHFGGVSHTR DAGEEGGGDGVVPRTAVGQEL DIGGGVDDGGREAEERGRIAGEG DGEVAPRQGEAGLEPAQLHDE DDQGHGEAEAPGEHGPVAHGP RPGAHASHQREGHAGRHLQQLQ AKETQGLCQGPGRPHDHGGPQ
10860	41228	A	10922	819	1274	NPLPRLQLRRLQLHPSVRNCCQ TRRCGR*HRQLRQ*ARRKLVR SVYFGSCLRQLLREEWK*Y*RV *VLGWYSAVSTSSLPFDYCLP NSDGYRRVVDPGSLSGHPFLYQ RYGWQHDDVHQPDGLGPPGS LHPDPAFCRCVLRNCGNLLA
10861	41229	A	10923	720	3546	RDGRKPLQFDAARNCGGSSQSQ RSGSRKRRGDRRI/TLSMLKTRK ANRWA*SFRKMAAISTP/RTDI ACAKYRYETLHADRVLYYIDS RQHQLMQAWAIVRKAGYVP ESVPLEHHMFMMMLGKDGKPF KTRAGGTVKLADLLDEALERA RRLVAERTRYSAKSWKTVFRL VIGEOMIDVLGPEKRRRRITQE KIAIVQSQSEFGMTVSLVARQH GVAASQLFLWRKQYQEGSLTA VAAGEQVVPASELAAMKQ
10862	41230	A	10924	764	1227	RIMVHATGLMKHASSPGCWDL NRRTRRCGVRRVTE*QRAS*KR *SVTTS/CIMPKPDGLTAAKNLA EAFEHYNEWHPHNPTEWFLS HCHIHKYPKSTLIHQGEKAET LYYIGKGSVAVLKDEEGKEMI LSYLNQGDITGDLGLFEEGQER SAW
10863	41231	A	10925	2467	2653	WLPFGLSHHNSPHPTSWGANG GFCQLLSMSVLMHSGTLGAH WDFSPVIGLEANRGVGDGS

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10864	41232	A	10926	1	860	MSHQLTFADSEFSSKRRQTRKE IFLSRMEQILPWQNMVEVIEPFY PKAGNGRRPYPLETMLRIHCM QHWYNLSDGAMEDALYEIASM RLFARLSLDSALPDRTTIMNFR HLLAQHQLARQLFKTINRWLAL GVMMTQGTLDATIEAPSSTK NKEQQRDPPEMHQTKKGNQWH FGMKAHIGVDAKSGLTHSLVT TAANEHDLNLQGNLLHGEKQF VSAMPATKEPQRELAEDVDV LLIAERPQKVKTLK/TESAQ'G' KRPTSTNT*KPASVPGWSTRA SSSGSSAS
10865	41233	B	10927	754	910	
10866	41234	A	10928	2395	3454	
10867	41235	A	10929	1	1377	MSCMTPASDGTGISIDDEEAKQ FRESVVEWLMTNHPHDCPVCE EGGNCHLQDMVTMTGHSFRRY RFTKRTHRNQDLGPFISHENNR CIACYRCVRYKYADGTDLG VYGAHDNVYFGRFPEDGTLESE FSGNLVEICPTGVFTDKTHER YNRKWDMQFAPSCQCSIGCN ISPGERYGELRRRIENRYNGTVN HYFLCDRGRFGYGVNLDKDRP RQPVQRRGDDFITLNAEQAMQ GAADILRQSKKVIIGISPRASVE SNFALRELVGEEFYTGIAHGE QERLQALQKVLREGGIYTPALR EIESYDAVLVLGEDVTQTGARV ALAVRQA VKGKAREMAAAQK VADWQIAAILNIGQ/HPLFVT/N VDDTRLDDIAAWTYRAPVEDQ ARLGFAIAHALDNSAPAVDGIE PELQSKIDVIVQALAVFRLVIGE QMIDVLGPEKRRRTTQEKIAN
10868	41236	A	10930	19	586	IAALLKDKHPAMLLLAATKRG KALAAARLSVQLNAALVNDATA VDIVDGHICAEHRMYGGFAQE KINSPLAIIITLAPGVQEPCTSDTS HQCPTEVVPYV/APRHEILCRER RAIKAASSVDLSKAKRVVGVG RGLAAQDDLMVHELAAVLN AEVGCSPRIAEGENWMERHAQ HKSWNPLSWAPLGSQAHP

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10869	41237	A	10931	1	1364	MLRILCLALCSLLTGTRADPGA LLRLGMDIMNREVQSAMDESH ILEKMAAEAGKKQPGMKPIKGI TNLKVKDQVQLPVITLNFVPGVG IFQCVSTGMTVTGKSFMGGMN EHVALNITANRLLRDEETGLP VFKSEGEVILVNVKTNLPSNM LPKMVNKFLDSTLHKVLPGLM CPAIDAVLVVYNNRWITNLSDP MPVGMGTVKYVLSAPATT ASVIQLDFSPVQQQKGKTIKL ADAGEALTFP/RGVMPKA/PPQL LVPATFLSAELALLQKSFHVN QDTMIGELPPQTTKTLARFIPEV AVAYPKSKPLTTQIKIKKPPKV AMKTGKSLHLHSTLEMFAR WRRKAPMSFLLEEHNKQ HSLHENQLQMATSLDRLLSLR KSSSIGNFNERELTGFTSYLEE AYIPVVNDVLQVGLPLPDFLAM NYNLAELDIVEGGIMEPADI
10870	41238	A	10932	111	415	VSALSLLHRAAPRCRRPSLPPLQ DAGLHGWEHGVQQRGPAAH RDPV*EGWHHSGHLAQGHSEG *PCGDSETPAGREGKTAGHRTG RCGCRQEQTGAQQD
10871	41239	A	10933	2	219	FLGGEGVIFPRGWWGAAMRFV STGSRHTTP*GSEKSAGPHTQW HQNSK*ATSETRLHSCASEGIVP AGCRPY

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10872	41240	A	10934	1	2358	VPMVVVPPVGAKGNTPATGTT QQKKAEGTQNSKKAEAGAPNC GRKAEGTPNQGKKTGTPNQG KKAEGTPNQGKKA'EGTPNQG KKAEGAHNQGGKVDTPNQG KKVEGAPTQGRKAEGAQNQA KKVEGAQNQGKKAEGAQNQG KKAEGAQNQGKKAEGAQNQG KKAEGGQNQGKKTAAEQKQG KKAEGAQIQGKKNEGAQTQGG KAEGAQNQGKKNEGAQTQGG KAEGAQTQGGKADGAQNQGK KAEGAQNQGKKAEGAQNQGK KAEGAQNQGKADGAQNQGK KAEGAQNQGKKAEGAQNQGT KAEGAQNQGKKAEGAQNQGK KAEGAQNQGKKAEGAQNQGK KAEGAQNQGKKAEGAQNQGK KAEGAQNQGKKAEGAQNQGK KVEGAQNQGKKAEGAQNQGK KAEGAQNQGKKAEGAQNQGK KGEGAQNQGKTEGAQGGKKA ERSPNQGGKGEGAPIQGGKAD SVANQGKTEGVTNQGGKAE SPSEGKKAEGSPNQGGKADAA ANQGKKTESAFVQGNKTDVAC SPEAPKQEAAPAKKSGSKKKG PGPPADGGLYLPYKTLVSTVG SMVFNEGAQRLIEILSEKAGII QDTHKATQKGDPAVKLRQL
10873	41241	A	10935	967	1574	SLKCLHLSPPVHSYPGKRPEVS SPINSQPPNYEMLKEEHEVAV LGVAYNPAAPTSTVIHIRNETSV PDHV/VLVPVQHSLHEP/CCLGF IAFAYSVKSRHRKMVGDLTGA Q/ALCLHRQVPEHLGPDFGHPH DHSAAAAHPSVDLPSLPSSFLLF LFLFLPALQLLFLSFLVFFFFS FFPLQRLELWGWGEWDHST
10874	41242	A	10936	3	370	RVATIVDIWEKSISGKKNSQNL FVNPCCLGFIAFAYSVKSRDRK MVGDLTGAQA/LCLHRQVPEH LSPDCGHPHDHSAHHHPGVDL PSLSIDQEASSRPGARALQDGA WASVFPVSVQWEQQGW

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10875	41243	A	10937	76	614	PDRRWSSLDTMNHTGQTFSPV NSGQPPNYEMLKEEHEVAVLG APHNPAPPTSTVIHRISETSVPD HV/VLVPVQHPLEHPCCLGFIA FAYSVKSRDRKMVGDTVGAQ/ ALCLHRQVPEHLGPDSDGHPHD HSAHRHPSADLPGLWIDQEASL RPGALPMTICIPRTPTSI RPA PR GQELCP
10876	41244	B	10938	695	1011	
10877	41245	A	10939	410	5501	EAKTHKSVVMTDPLLDSPASS TGEMDGLCPPELLIPPLSNRGI LGPVQSPCPSRDPAPIPEPGCL LVEATATEEGPGNMEIIVETVA GTLTPGAPGETPAKLPGEREP SQEAGTPLPGQETAEEENVEKE EKSDTKQDSQKAVDKGQGAQR LEGDVVSGTESLFKTHMCPECK RCFKKRTHLVEHLHLHFPDPSL QCPNCQKFFTSKSLKTHLLRE LGEKAHHCLCHYSAVERNAL NRHMASHMEDIS
10878	41246	A	10940	446	1704	GGPDM DARAPAVGGSCHQHOP SGAPGP/CIGRMES/EVGVRDHA IPEGARCNRFRKETT EGPLHCSR CGLLCPSASLRGHTRKQHPRL ECGACQEAFFSRLALDEHRRQQ HFSHRCQLCDFARERVLVK HYLEQHEETSAAVAASDGDGD AGQPPLHCFPCDFTCRHQLVLD HHVKGHGGTRLYKCTDCAYST KNRQKITWHSRIHTGEKPYHCH LCPYACADPSRLKYHMRHKEE RKYLCPCEGKYCKWVNQLKY HMTKHTGLKPYQCPECEYCTN PIADALRVHQETRHREARAFMC EQCGKAFKTRFLLRTHLRKHSE AKPYVCNVCHRAFRWAAGLR HHALTHTDHPFFCRLCNKYA KQKFQVVKHVRHHHPDQADPN QGVGKDPPTPTVHLHDVQLED PSPAPAAPHTGPEG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
10879	41247	A	10941	1	944	MSILLTSIARQSRDKRTRLGHK QRILAGLSNHPIRNLQGLRR FALVDRQLVVQNVVTRWCRM VYQSAANVFIQHRPISHDERVQ QRGTAITMMVQQAQWAERGK SGLSGVAIGPAVDTSALQAQLR ETLPPHMPVPVLLQLPLPLSA NGKLDRLKALPLPELKAQAPGR APKAGSETHIAAAFSSLLGCDVQ DADADFFALGGHSLAMKLA QLSRQVARQVTPGQVMVASTV AKLATIIDAEEDSTRRM/WRNH SAVA*R*WPDVLPFPCVRFCL AVQRALALSRTMVDYRHSVT APQWPHADGGKPG
10880	41248	A	10942	1	939	MRTILTIDIQLRYPRRPGAFGTH TFLKCAFSNKQRRFTVKRFAPL AARYPASQEMPPVRHGHAVAA AIPCNGVPANGNTPARYKQGQC GLCSSTLQDALRDFIQVAHTCEI PLMPACFGLADDKLWRWLNE KLPCSLMLLPTLPPSVGLRLQN QLQRKIVLFGGVWMPGDEVKK VTCKNGVVNEIWTRNHADIPLR PRFVAVLASGSSFGGLVAERN IREPILGLDVLQTATRGEWYKG DFPAPQPWQQFGVTTDETLP QAGQTIENTLFAICSMGGFDPI AQGGGGVCAVSALHAAQQIA QRAGGQQ
10881	41249	A	10943	25	479	
10882	41250	A	10944	2	453	APSRTSGSSVGLQGSYVLDVVG REFGCERVKG*FLVHRAGHL/L TLWLFSQINKMEWWSRLVSS DPEINTKKINPENSKVSPGWL ELQQEGEGPRCFQSFTDSCHCL PSLSDLDSETRSMVEKMMYDQ RQKSMGLPTSDEQKKQEILKK

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10883	41251	A	10945	3	1110	RDPQERRERGRTRVQSSGTWIGA GAMGGEQEEERFDGMLLAMA HQHEGGVQELVNTFFSLRRKT DFFIGGEEGMAEKLITQTFSHH NQLAQKTRREKJARQEAERREK AERAARLAKEAKSETSGPQIKE LTDEKAELQLEIDQKKDAENP EAQLKNGSLDSPGKQDTEEDDE EDEKDKGKLPNLGNGADLAQ *RLNPDPCRELDLAVPFVFNFR LKGGKDMVVDIQRRLHGLVGL KGQPAIIDGELYNEVKVEESISW LIEDGKVVTVHLEKINKMEW WSRLVSSDPEINTKKINPENS LSDLSETRSMVEKMMYDQ RQKSMGLPTSDEQKKIQEILK FMDQHPFMGFFPKAKFTNP
10884	41252	A	10946	50	426	
10885	41253	A	10947	1	942	QVWKQCNCFKHYSNETDNSTTQ LVGLQTLQVVVPSLICEHCMN FSSPHVWCCLVQAVPGQGQT MQVPVSGTQGLQVSNIKY* VYQRRGFKEIITTYQTQIIQQ PQTAVTAGQTQVIPLALSHRSK TDLEESDN*VRYFPVNADGTIL QQGKCTHKLP*DFLGQLFCPLD N*HLSSSGQGTVTVTLPVAGNV VNSGGMVVMVRKICIFQLCL* NFLEHAT*CLLKFEPLYVNAKQYH RILKRRQARAKLEAEGKIPKER RVCITLGR*ERRIAGFYF*NYLL YPKEKDSPHMQVGRHIIFILLFI TLY
10886	41254	A	10948	24	378	
10887	41255	A	10949	15	658	QRPNAAQTQPSRGCLSA PARAGRFHPQSCRPSRVGCKGHV CIPGDRSLALWPPRLGCGE* TSSALDSQGILVSNFPHEGS/ PTPQSGSLKTGRILLNHGRRLK VQSSEGRFLEVGWKQRGPTA HRTHSNRTRRRHALSTGGDT GRARNARSGGGRSPSSLPAAS STPGVCWSPRMSQARQPPSC RRGVPRRPEMLRSLSPSCQIC VCVRFH

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10888	41256	A	10950	1171	1639	PMALWADGRARHKVGTCECECGMHPGLKCSGR TLGSQTM LATTPCDSPT*1/SNKNGLRSV/SYR*CLINALWLFSPHILVRCGTESS*LLPSLVPSWLP*LVRVRPLPTGWC*IPSCCLKPPTWSSHSPQRLP*NPATLVCLQNGTARSHSSTPV
10889	41257	A	10951	2	357	HERLLNPGRETWDATCYSETASCSVA*ATVQ*HDHGLS*PQTPGLKWFHSHFSLPSSWDYRHHVPPCPETGCPVTDQGVQWSYHGSL*PQTPRLKQSYHYSLPSSWDYRW EHPVAGKQA
10890	41258	A	10952	15	578	IQITPKGRRTKPCRQKRTIVTPRQSTPRSNRGKDTRSKQRDETT E*TTTRAQDTNKEGATQDR TETARRTQSNMEKEKFNQHNKRKRD RDSRKDKGHERETKNTERNRTKRREKRKDNKNHNEAKSQRQTRKKKETKETATRKREEPSNSCSMHFQISWLHSVGDNGRRDQLLCQGPHLYLMCFQ
10891	41259	A	10953	2	369	DIDPTGLQSQSGPKGQDPPLMFSEDYQKSLLEQYHLGLDQKLRKYVVGELIWNFADFMTNQCPKTTSPVILFLPSCPEEPQANKATLVCLMNN/FYPGILMVTWKADGTLITQSVEKTTPSKQS
10892	41260	A	10954	1	417	FGTGPSASPRTSFRHQCGH*PHWTA/VTDSQGAGQPKTTSPVILFLPSCPEEPQANKATLVCLMNNFIPGILMVTWKADGTLITQSVEKTT/PSKQSNKNKYVASSYLSLTPEISWRSRRSYSCQVMQEGSTVEKSVAPAECS
10893	41261	A	10955	113	767	GPMRPGTGQGGLEAPGEPGPNLRQRWPLLLGLAVVTHGLLRPTAASQSRALPGAPGSSRSSLRSRWGRFLLQRGSWTGPRCWPRGFQSKHNSVTHVFGSGTQLTVLSQPQ/ALTPSVILFLPSCPEEPQANKATLVCLMNDFFYPGILTVWKADGTPITH/GVEKTTPSKQSNKNKYVASS/YTSLTPEQWRSRRSYSCQVMQEGSTVEKSVAP

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10894	41262	A	10956	1	344	GSAAGQVQQQQRRHQQGVK TVKYDRKELRRRLVLEEWE VIVE QLGQLYGEEFEEMPEVEIDIDD LLDADSDEERASKLQEA LVDC YKPTTEFIKELLSRIRGMREN* A PPPKKSV
10895	41263	A	10957	3	349	TMNNMRGQILLFLLIWLWNR YGQLVGSSEKHKIASQLELIQS QFHYCVTLDKLLNFSEPVHV K QEQLLSVCSEKEVTEVKVLALV NHVGSKCCFLFCSGPSP*PKFSV SQVFS
10896	41264	A	10958	998	1383	
10897	41265	A	10959	39	402	TDHIMREYKLVVLGSGGVGKS ALTQVQVQGFVEKYDPTIEDS YRKQVEVDQQCMLLEIDTAG TEQFTAMRDLYMKNQGQFALV YSITGQSTFNDLQDLREQILRG* RTREDVPMILVGN
10898	41266	A	10960	25	739	YKKNFIDISLSVKCETCTHMLT SSSL*C*NLCISFLIDFNL*AG FVI*VGFTAQSTFNDLQDLREQI LRVKDTEDEVISFLCKMLCHLS VAK*KSACFQNLARQWCNCAF LESSAKSKINVNVTYNCWAA QTS AFLVCFKLTA RLLALSITNV SSCTGWGVQRSHQDQGSKHA ASSVWKVGFIVRLGTGTCLSS LERGYMCMEKEMFDPYTPSRV LKPRSEALELFGPLKSLT
10899	41267	A	10961	946	1424	YFRFLCVIFCSFLLRCLVSRVLL YPMIAIEIPRVQGRGGPSWPL GGRLKELSRLLTFKVRKLSIL SGWREVP LGQPSLTEPP/PPAPP HPGPGSWLASASAPHL SQPPAA GPAGQPPSPGSPVPGGCSLALP VTSVLCLEPPALKPAAASAPVV AVH
10900	41268	A	10962	1	148	TALQEFGTRSGIPALGCPDPDP* PPPGSCPPPEQLLSVGEPSCRS CSP
10901	41269	A	10963	10	233	LGAARRAQLLESWPRA/PPPAR LHACHLP/LPRTPKVHTS*PTQ QQGGFSLCKKKNPVSVEMIC SSARLKLTE
10902	41270	A	10964	1	331	RPLLSLTLCWELRAALSYWRA GRAPPPPARLHAGPASGFVWLT PSGGEGERPRLHWGGGGRRG GGRKKD*GGQGRGAGGFATF SPPANAPRLHTSLTNSSARWIFL CV

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10903	41271	A	10965	4	1023	FPRAGEKPYTCESGRAFNQS* TLTTHMTIHAG*KPYKCEECGK AFYRFSYLTKHMIHTGETFYK CEECGRGFNWSSTLTKNRIHT GEKPYKCEQCGKALNESSNLT AHKIIHTGEKPYKCEECGKAFN RSPKLTAKHVIHSGEKPYKCEE CGKAFSQSSILTTKRIHTGEKP YKCEECGKAFNRSSNLTKHKII HTGEKSYKCEECGICRTPKMAV FSQCHQVLKITNIHYPSSIATIVH GDRAQSHVDICTLGDKASGAIH GTAFTYTQCEQRAYNETAVSR YTISRPPSHHGGDSEITTEFPAI GRCNGVHKSWGNSRCSDRWRS
10904	41272	A	10966	1	290	
10905	41273	A	10967	1	1508	MSWAARPPFLQRHAAGQC GVGRKEMHCGVASRWRRRR WLDPAAAAAA VAGGEQQT EPEPGEAGRDGMGDSGRGEC SRRAGEPVTALSA T P P P P P SSMGSPGLPPAPPFGSPVSS QVRGCDQLTA W P L S F S C F V L G V R G L H C P P P G P G A CAICGDRSSGMWLRG*TERESL GHVSSPVG*DLTYSCRDNDCT VDKQRNRQCQCRYQKCLATG MKREGKDPPCPGLDHMPFSLI PLRPPEEMPVDRIEAELEAVEQ KSDQGVGPGGTGGSGSSVS GVNPLSFVMGVGGGSLGLWAK RIPHFSSLPDDQVILLRAGQ*P WIPLTS*HLTPL*L P D L F L A T HVHRNSAHSAGVGAIFDRSVA LG*AGM*IEGVGL*AGPCLRAII LFNPGKRRITFVSQGGNGLGAS SSPMETCYCKQKYPEQQR*DG AGGH*GSLGGGECYEDVFLFFF KLIGDTPIDTFLMEMLEAPHQL
10906	41274	A	10968	945	1131	MICTVAISYVLFVDVYISLLSAT CSPKQGS AVFQHD*VSPGI*NG SERCCSRDRHRQFLW
10907	41275	A	10969	37	332	AEGIRTIQGTENIFCKVWGRQ VLSQTNTLEGQSNHDGCLRL KRTFTISTTAHYSRFFLQRF/VFP YTGFEKQCS TAW*KPRYLLSHS VKGKRN LHPA
10908	41276	A	10970	137	283	
10909	41277	B	10971	1	624	

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10910	41278	A	10972	3	618	KTQDPAKAPNTPDILEIEFKKG VPVKVTNVKDGTTTHQTSLELF MYLNEVAAQHGTVGRIDLGDN RFIGMKGRGIYYTPTGTILYHA HLHIEAFIMDREVRTIIQGLGLK FAELVYTGFWHSPELCLRHCI AKSQERVEGKVQVSVLKGQVY ILGRESPLSLYNEELVSMNVQG DYEPTDATGFININSLRLKEYHR LQSKVTAK
10911	41279	B	10973	1	1102	
10912	41280	A	10974	748	1396	LYLQRPFFQIRSSLQVLGHRQIF PQSPRCLHLAPPLMRHSHRSPT WY*FSPRRTQSRPVSAQPLGS CGGIQPAAPPVTPQSQLSPPRG R*LGSDGAGTQPRHVQNPCLT CVHM*SPPPCLNLQARCPQSL RAKVVPAAVEQARARVGHVESPG SHCWLEREPEVGSGPQQGQRPL PAGAAD*CLGAFWQTHLDLGD SLISCSHDLQGWQLSQA
10913	41281	A	10975	1	846	
10914	41282	A	10976	2	851	WNSAELGRGGPGAGGAVIGM MRTQCLLGLRTFVAFAAKLWS FFIYLLRRQIRTVIQYQTVRYDI LPLSPVSRNRLAQVKRKLVLVD LDETLIHHHDGVL RPTVRPGT PPDFILKVVIDKHPVRFFVHKR PHVDFLEVV SQWYELVVF TAS MEIYGSAVADKLDNSRSILKR RYRQHQCTLELG/SYIKD/LSLV VHSDLS/GIVIL/DNSPGA/YRSH PGYGGRI/DNAIP/KSWSVTPSI DTALLNLLPMLDALRFTADVRS V/LSRNLHQHRLWYTA CFPLPP
10915	41283	A	10977	25	153	
10916	41284	A	10978	1	741	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGTPR KGLGE/PAVVPMSPAVGT/PALT QCHGPHAEDDLEELITTDPA RDCPLDLLMDGKTGAIISSLLHS NCLPAPFCQCSHAVKWLKTV HSCCPGGEVQPORRCVIA TAKE KGIGVKHHCNIHSDNVNSIITAT VA AHQQQQLPQNGNNSGIKNN QNSSENTVTNNSKNISNHIICRN SSKNSKSSSSSSSSNNKNSSNTI NSNNKAR

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10917	41285	A	10979	1	669	MMSFDSMSHIQVMLLQEVPS YPASKKNEA/PQTSGGGPGT KGLGE/PAVVPMSPAVGT/PALT QCHGPHDEDDLEPILTTDPVA RDLTMPTAASQHLKQCLEHH HYFHSYNINSDIIVSRNNISSHIT TPVHHCHHSDNVNSHITATVAA HQQQQLPQNGNNSGIKNQNS SENTVTNNSKNINHHICRNSSK NSKSSSSSSNNKNSSNTINSN NKAR
10918	41286	A	10980	3	980	IESPGFPFGLQRPVPHRGEFL RCTSSEALPCFYSWTVTFSPWT VAAAQGGPRPGPASKRTLLATQ SEIAAAELGPGSWGPPSCPSE QSSHGPPASS*AAPLQTRRLRS RAS*RSAGPSVAALPAPLSRQPE RHPSVSASRSGHPGCPSPPPP AARPVQPSPCRAPPGSAAGRAR APHA*AAPGSWLSAGAAARR WPFQTAKGSGS*DRPGRPGPDA PAAPPGWHRAPPGSSSGAGTG RHPQPFGRPRRTAPYAAPCA FVATLVFS*LLIFGGAFSPALS HCPTSA*LKRLLEPAPIAFPPG LHPGTLLSRAE
10919	41287	A	10981	1	5229	
10920	41288	A	10982	1	7044	
10921	41289	A	10983	1	3228	
10922	41290	A	10984	10	209	TLSGGEPQRLAERRARLQDEE RRRQQQL*MRKREEDRARQ EEERRRQEERTKRDAAEYVM
10923	41291	A	10985	293	363	
10924	41292	A	10986	3	434	
10925	41293	A	10987	3	1536	
10926	41294	A	10988	315	993	VPVAPIHFHSHFSPAPTFTQSR QDSMQCILRQHCHLILSRSSSL VPAGLRGAMAFALAIRDTASY ARQMMFTTLLICPELLALLLS LSHSRSLLLHGYHGPS*YALFFS LSFSLVTWVGAKPGRYQSLIFV VVVGCTFQNGEPLREEDSDFIL TEGDLTLTYGDSTVTANGSSSS HTASTSLEGSRRTKSSSEEVLER DLGMGQKQVSSRGTRLVFPLE
10927	41295	A	10989	3	320	

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10928	41296	A	10990	3	582	GPPTPRRPRPLPSSLPSRRSRDPP RIPLCA*FPQTRKQIARSEPD*T WASQSSSTIPRIWRVFHA*KFST APL.TATPPPGKMCAGCRETVK TT*PPLRGGPAPFLLPSRAVARG TRPGFRSALSFRRPGNRSRGVN LIKLGRLSPPPYPGFGGSYTPE NSQPLPSLLHLEKCALRDAE RQLKPPDHHLMAVWLPDVWN GEGEPSPSHTRHSLRASSNYV LRAPEGNLLARRLPRETAINLQ PKACYKTLSPESFSHFYNQFC PRRHQWLPAPPPGHFFLG
10929	41297	A	10991	3	338	NSPSRPRSSQRGVAGRREAGP VAVP*GGPKKGRGC*GNRWG QRPRWMLRASGSGESTTPACSA ENRHAS*RKKRRRPGQVSWE TEETRSGHSGPRGHAEP LHRP QRR
10930	41298	A	10992	3	226	TILSS*SSSSSSPSPSPSPSPSP SPSPSPSPSPSPSPSPSSFFLRWS PALFPRSLSFSLFPGTGTFPSCP
10931	41299	A	10993	24	489	KEYLVRTK*QKQKGENPLVKIT FRPPPGRLRTYPSAPWSARSTYG RAAAVWRPHSPSAPRRGTHPW PAGHRGQRASGEGVGTHTHAH MSSVCACSTHTCWSRNCCKDPR EDRGRGLTVLLEAAVCNSCLLL VLKTPRNPQLPILYTDSDTKSST GNP
10932	41300	A	10994	1	1491	
10933	41301	A	10995	140	308	RNVIKLGWSRPSKQQDNPTLR PGPPSPAGGFGQLLMRMRPLA GGGKSWGIAHFYKPLQRERRA GAECGLARQVRAEVTKWIGVN RRPRKRRKMEKEEVFEKLLPD QLGLLLEHLLQKTLSPRTLQS LQRTYHLQDQDAEVRHRWCEL IVKHKFTKAYKSVRFLLQEDQA MGVYLYGELMVSEDARQQQL ARRCFERTKEQMDRSSAQVVA EMLF*RGQDRFSLKKCDKVKG MVKTQQATGQPDSPPRPALTG RRVPATADADEKAFGGWRKIL GYRTFL

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10934	41302	A	10996	219	688	RRMHAYVSLDPLERPPFFFLF FFFFFFFFRRSFALVAQAGVHW RDLGSPQPPPRFK*FSCLSLPSS WNYRHHAPRPANFVFLVETGL QLPTSGDLPASASQSVGITGVS HCAWPGNWLLKETRCSSVGR QITGPITDAWVDPGIPDRYLQ
10935	41303	A	10997	3	298	FFFFFLRQSFALVAQAGVQWRD LCSPQPPPPPRFK*FSCLSLPSSW NYRHHGPPHPANF*FLVEMEFH HVGQACLKLLPSGDPALASQS AGITGVSHRA
10936	41304	A	10998	2	438	APSVRSGNERDLARDEEAQETQ VRGCHASGGCTPAATAGASPP AWAGRRGTGQRLRSQPRQTGR QPPRVQPLAPPGAPAPLPNPQ NCRRKTRSHPRFWAGTLAPGPC PGLWCLPGLVQVDVLAAGRCD HLSCLPPLCPQAFLL
10937	41305	A	10999	2856	3044	GAATGEGGCCRLPGHPALAST A*AIPCRGPRVQETSPPPVLGW DPGSRAMSRLVFAVVGAG
10938	41306	A	11000	1	908	GLGDPGVPLRSGGLGPPADLK GDQAVAE*LHEASGVTEHHPS AQPGPGGEAAEPAHLIV*EPEG GSPGHPPGGPGHPG*SEGPAAG KPGPAGGSAQGCRRSSEPSGT *SGRSPR*GPHGHPDCRTHPAR EGAQVHSRSLPGGAPVRRGCS QGPEQLRQEDFLRVQQLSAA GPLRPQLYPQVWLCPEHQHLE QYPRSYFSEIDVFKPCGVQQG CPVLDRASSKISPEDAAGSVVR LRSLWAASGLQQGASGLATFL QLLTCGVLPWDEELVHLLDE VVASAAALRCPDPVPMPTCG

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10939	41307	A	11001	218	990	VLQLLKAMRLEFLPPGGFMV LLASGVKLQTFATQVPSWLHP VDPSGLELPAASPVQCAHTP QPLGGRWDVWPWSRQGRSSG RLGPHGSPWRRWEAQAWQPA GPKPCPVGS*GPVNRNGQRRW AGTAGDPVHPPQLAQVLSPL PGADRAGQLLRVQGPSPCPPG TPAGPQGRCAAPVPTGVSPSTP PCKLREQAPALASPERGSHSAA VG*RAPQVLPKW*PELMFRWV RSFFLLVGSWLTSGVKLHPFVV SVTALKGDASGVIPSSRWVHGL AGLRCEAADLRDSGAQLASPS GSLTRTGGGAACQSRVCPHSS AFGWSMGLGAMEQGAALIGEA RASREPMEEVGGSGMAACRSQ ALPRGQLRPSEKSRAPVGWH CWGPSTPSAATGPGAKPLIARG RQGRPAQAQSGAPAKPMPTRNSS WPAKAVRSPGSHWRLSLHTSL QAERAGSGLGQPRKGLPQCSSG LKGSSSAAKVVAQAEAAQRAS EGCEDYLARCHLSIRKMRNRN
10940	41308	A	11002	3	644	EPPGPTGPPSPQSPWHPLGR WSSTHVVFTHLHLAAGPWSCD HRWMGKQLPVSLASGVQGV RFRSQDMYQSSRNKFPSGAAH VPQEWAVPWKNQGNTHQSSRP SESGCCAQAEGSNQCHQREAE AGPSRLSLPDGGRRLTTPRHNP GPWYWNNSPQRLN*WRRGDPS WPEPQGKPHTTGARVPACQRR EICLSFPRGPRRRQKENIYEYL
10941	41309	A	11003	202	438	FHGHAPAGEMRGWPRVTKRSP AQSGKTHFPSPGPGPDTSTESI FRRAWKAPGPGRGRTADPET ARCGAWDEIVEPV
10942	41310	A	11004	520	1094	GPLSQCPPLRLLPPLGVYSKGR APHADTHSPGHRRTAHAQPA AAAATATR*QRRRLPPRRTPF RRPAARPDRRVPAHSSAVLPRP GKPGAFQALRKMDSDVDVSGGP GEPGGKLGFARLRRAPPDRLPG CPSSHSFQTQSLSFMAHNVDPE LESATSLGLLRRSWFCFTWQK QTVYWSVTGRIRHSGEK
10943	41311	A	11005	1	138	SISLMNDVKILNKILANQIQQH RKLHHDD*VGFIPCLRILVYI

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10944	41312	A	11006	65	297	NQRLPQFLPTTTPPATRAT*D EEKSPYPGPGSDKKCPITLQ.PSP PTPSAGGFPLGESGSPGGLVK AQIMEGISM
10945	41313	B	11007	322	6900	
10946	41314	A	11008	3	215	
10947	41315	A	11009	1	234	
10948	41316	A	11010	149	300	
10949	41317	B	11011	28	162	
10950	41318	A	11012	700	861	RRKCIPGRNRSKHKGPDGAGRP *VCREQEQEGQCAWTGYPGAQG PDPYCGKGPYS
10951	41319	A	11013	291	744	LKRTKCDQLLKTSFLDLGRGPI LKWLCTSKWGHQQIIRA*GTE YKTTSTFFFFETASRLCHPGWE CSGAISAHS*FLLPGSCHSPASA S*VAVTTDTREHAQLIFF*HFSTR DGFHVVARWLDLLTCDLPLSL QVLGYRNYIIIVRQLPSR
10952	41320	A	11014	139	414	SPKTAPPGFFFSF*LHLMLMKFT PGAIKLVFLQFLLGISFFFLGKP PSSWFRNESC SVFRKESQSWQ GRAHVWG*SDPWSSGRSRAH L
10953	41321	A	11015	5	565	VHTTEATCTTTGAKPCWPWSKL ATRQDHSVLSTSNPRGPTPHKS GSPETAGALSSGDAGSRGEGPR TVSSERSSPGKGGSTLLGTTA*G PGPAHFASAVLGPSSKSLQAAS *EVDSPSSLLKTAVSVLASTVR LSVSFMPFITVSVTSSVISASS PSELASMATLPGASG*AAAVN FELDEE
10954	41322	A	11016	188	515	SQTVSIVGELPIPRKRCEIGIWD AQKR/CPRLTGPWATISVPTISK KATGN/PQHPNHPRARYQINAE *WKVHIF*TNDRPSHECPCTLV VHRTLQDLRHKSSSTSGGKTHG
10955	41323	A	11017	80	397	SVQRSVDHL*DHP*TSVDWELY LDGSSFANPCKVTLKTTTSPAS VTPEADWSMHQSQRNLSRDS FSLKFGLIIHDFLPTFNPLENP CGFLTRCCVPNQISS
10956	41324	A	11018	104	392	PSQFHLKLLHMLALLYPVGTG QVKDSSLQKSTSVPPDSPQTG HSLKLPFNPRFR*RPQCQPGV LPDVELSCHSWNVLWTTAA KTPIFCY

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10957	41325	A	11019	125	1404	NLALGMAMWN\RPCQRLPQQP LVAEPTAEGEPLPTGRELTEA NRFAYAAALCGISLSQLFPEPEHS SFCTEFMAGLVKWLSEAVLP TMTAFASGLGGEGTDVSVQTL LKDDPILKDDPTVITQDLSFSLK DGHYDARARVLVCHMTSLQLQV PLEELDVL EEMFLESLEKEEEE SEMAEASRKKKENRRKWRYL LIGLATVGGGTVIGVTGGLAAP LVAAGAATIIGSAGAAALGSAA GIAIMTSLFGAAGAGLTGYKM KKRVGAIEEFTFLPLTEGRQLHI TIAVTGWLASGKYRTFSAPWA ALAIHSREQYCLAWEAKYLMEL GNALETILSGLANMVAQEALK YTVLSGIVAALTWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQGRRPVTLIGFSLGAR VIYFCLQEMAQEK
10958	41326	A	11020	3	1693	CQRLPQQPLVAEPTAEGEPLP TGRELTEANRFAYAAALCGISLS QLFPEPEHR*VLLSCPLGTPVGL HSDAHYGGRLAVAVHVEGTLF FTSSTFAAASVFQKARPWQHPG EQMAFSGKPLVAAVTSAGGS GAPSVGCTELISTSVLGYHTAL EMAGLVQWLELSEAVLPTMTA FASGLGGEGADV FVQILLKDDP LKDDPTVITQVHPTPGVKDGKL IF*ARVLVCHMTSLQLQVPLEEL DVL EEMFLESLEKEIEESE*ES PATKTEGGGEDKDRKHPLMGD KMTESKTDLWIYEMGNAGVLL FRRYLWLQPKKKENRRKWKR YLLIGLATVGGGTVIGESS*RCA PLVAAGAATIIGSAGAAALGSA AGIAIMTSLFGAAGAGLTGKVQ KE*VGAI EEF TFLPLTEGRQLHI TIAVTGWLASGKYREDQEDQA ALAHSREQYCLAWEAKYLMEL GNALETILSGLANMVAQEALK YTVLSGKCPHLPWPASLLSVAN VIDNPWGVCLHRSAEVGKHLA HILLSRQQVPGNGCVIGFSLGA RVYIFCLQEMAQEKGEHLL
10959	41327	A	11021	208	324	VSLLKAADNWL VNSYPFCNSV SSEFFFR*IRDFFLFWIH
10960	41328	A	11022	1265	1459	
10961	41329	C	11023	188	730	

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10962	41330	A	11024	64	228	QHLLRRWGRSGLLNDR*VSN EIKMEINKFIELNNNSDTYITL WDTANTVLKFM
10963	41331	A	11025	1	648	
10964	41332	A	11026	26	613	VGAGGRGWRFAAAVRRRAAGG GLRPGPAPGPRAGGGGPRGAH LALLRRAGALRAGKEYGKADA RWVYFDPTIVSVEILAVALDVS LALFLIYAIVKEKYYRHFLQITL CVCEL.YGCWMTFLPEWAHPEA PNLQQPATGWLYWLGFTLFFF* RCVGLIPRNWLLWAVHGPRTS RKWHQKGNQFQWKEVFSGT
10965	41333	A	11027	2	252	ARGRAGVAGGPR*AAELPGL RDPFPASRPLRRSDCLGLIRHK PPDPGAGARVEGEALPSWSPGG ALEEGVT*PGRGPPWE
10966	41334	A	11028	3	637	RQVRRGGQGGEPARIQCPRRL GEGPGAPNRLGPPARDPRCSPW PRADSPRPNRLSSQPLRPAYL GPACFP*PSWGVSRSLPSLAPW RPHRLPDSQRFPPNGGSRSRATS GSWTWKSKECREWRPSGSRGT RGSSGSGAGSSGSSAGVGRAG HGRWHLR*GPLFAAPASATCP LWHGWKGASLDLGLQPWATF YPRVTGARGGRTLGP
10967	41335	A	11029	158	462	
10968	41336	A	11030	339	866	QICHSPPGNKAHSHLLPYQTPV PSSQYPPSPSRTLQLPFPTWNP CQWPSRGSCGPAVGTGPPFPT GIPSV*APSARG*HHSSACGCH PGCAGPQPARSPHGPAPASGCH TVSGCCCHALLQSCLAAGRPSA GTWPHPPGGLPSAPGTEPCTA FEGFQPPCWLSQLPLSPCL
10969	41337	A	11031	621	944	TPOGGTAPSGGRHPWASAPITR LPPL*CSARPGCH/SSRMSPGT RPSGPLQDCHPPRPQTPHAGS HHTSAPQAPAGTF**RQRVAPG SSCWHLPQSWSCSAWLGGC
10970	41338	A	11032	3	257	AGRASKGG*NPSKAVQGSVPG AEGSPPEGCGQGPAGLGLPGA RQDCSRA*QHPPGPGGQVEY LDISLAPGSTGIQGLEAKHL
10971	41339	A	11033	94	227	SSYVFKSILAFGMTWMRLITII LSEVTQG*KTKHQMFSLICGS

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10972	41340	A	11034	404	894	FVYFFRGELCKISSTLGFKGTGQ GLQPSKVS**VPSRPAGNRP YPETSQPPGPSGG*HWLAGW Q*GGPEPGWTCIWP*GS*GTEIG SPSQGPPEPAGVPSRDAGSAA TGCHTGLAGVWPRLCHRRV TDGRKSMKRCLSRSYCTSSVRA SGGGAGRIT
10973	41341	A	11035	1	408	
10974	41342	A	11036	68	204	SFLWHPGLHFHHTH***NYKS SSK*MVRIRVTFSKFIFVRNNYC
10975	41343	A	11037	5	188	PQCRHLRLQGLALSPKLECSAI TAHCSLELPGSSNPPSASRF*GS RSVAQAGVQQCYHSSLQPTP GVKQSSSLFPFLRLQPKVSSATL PVRLQE
10976	41344	A	11038	1	263	
10977	41345	A	11039	2	283	
10978	41346	A	11040	1	1965	MAAENEASQESALGAYSPVDY MSITSFPRLEPEPAPAAPLRGR KDEDAFLGDPDTGEAR*PRPCP ALGSPRSSFFCVKHGSPLETR KDPFSAAAAECSCRDGLTVIV TACLTFATGVTVALVMQIYFG DPQVRGTNGEGEETGEWVG* CLRNCCKGSSVDAAVAAALCL GIVAPHSSGLGG*GAVEVGVPQ AYFLPPGL*ASCAARALREETL QRSWETKVGTLVRRESSGESLF IALLLTQALIC*VLAQDGFNVT HDLGQWGLGIWERHEVDGEG* NL*DLEPPPLPGSLLRPDLAEV LDVLGTSGPAAFYAGGNLTLE MVAEVSARVVRVGACPKVPIA GHPRPHFGVYRGDLSPGSQGP PSGEASQSMATSFWPNLTSLV SREQUALHWVAEVRRLRLFPFGF KDIRSGEIGYCHRADDMLRWV LGRTWGLQRQRVWVGKGQEK SSYELDGAPTAQVLMGPDF IVAMVRYASSDSEPGTRDPLNQ EGVGAG*RFSPNRTANHSAPS LVGFASLLSWG*GL*VGGAM AWLPLCGTYLALGANGAARGL SGLTQVRFTPWLAFFSREPSG LDCRCLS*QSNLLQVDSECAE TSWGGHRDR*RKDSQGCPCWV HGSRRITNNFIIVKDRSPDAA

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10979	41347	A	11041	1	363	SSMTTVHATTATQKTVGETLA* LLQNIIPVSTSVAEAMGKVIPEP DKRLTGMAFCVPTHNMLVVVAL ICHLQKAAKYDGMRRFCNATT GITFNHGFVRLLSWDEFGSSNR VVDLMVHTASKE
10980	41348	A	11042	162	303	CLLLKSCSQEAAAALALPALGL VFDVFL*IVFVRTKYLRVGFNRN FF
10981	41349	C	11043	56	118	
10982	41350	C	11044	345	410	
10983	41351	C	11045	7	439	
10984	41352	A	11046	2	80	
10985	41353	B	11047	205	5326	
10986	41354	A	11048	1	813	
10987	41355	A	11049	1	1454	
10988	41356	A	11050	2	1624	
10989	41357	A	11051	1	1185	
10990	41358	A	11052	1	2149	MKEKMLRAAREKGRVTHKGK PIRLTADLSAETPQARREWGPIF NILKEKNFQPRISYPDKLSFISEG EIKYFTDKQMLRDFVTTTRPVLK ELLKEALNMERNWYQPLQKH AKNMPNSIILIPKGRDRTTKEN FRPISLMNIDAKILNKILANRIQ QHIKKLIHHDQVGFIPGMQGW NIHKSINVIQHINRTIDKNHMIIS IDA EKAADFQIQLFMLKTLNKL GIDGTYLKIRIKYLGJQLTREV DLFKENYKPLLNEIKEDTNKW KNIPSCWVGRINIMKMAILPKVI YRFNAISNKLPMFTFTELEKTT NFIWNQKRARIKSIQSQKNKA GGITLPDFKQYYKATVTKTAW YWYQNRDIDQWNRTEPSEITPH IYTYLIFDKPEKNKQWKGDSLF NKWCWENWLAVCRKLKLDPF LTPYTKINSRWIKDLNVRPKTIK TLEEILGITIQDTGMGKDFMSKT PKAMATKAKIDKWDQIKLSF CTAKETTIRVNRQPTKWEKIFA TYSSDKGLFRIYNELKQIYKKK TNNPIKKWAKDMNRPFSKEDIY AAKKYMKKCSPLAIREMQIKT TMRYLTPVRMAIKKSGNNR QTESQIMSELPITIASKRIKYLGI QLTKDVKDLFKENYKPLLNEIK EDTNKWKNIPCS WIGRINIVKIM AILPKPTNVHVTNLAAQDTTAL EAAQISLEGHPQEKEISVTAMPL
10991	41359	A	11053	1	2031	

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10992	41360	A	11054	1	1188	
10993	41361	C	11055	1	353	
10994	41362	B	11056	151	1608	
10995	41363	A	11057	1	373	
10996	41364	B	11058	1	488	
10997	41365	A	11059	1	1257	
10998	41366	A	11060	2	3527	
10999	41367	A	11061	1	2373	
11000	41368	A	11062	1	1755	
11001	41369	A	11063	1	1599	
11002	41370	B	11064	220	1286	
11003	41371	A	11065	1	1826	
11004	41372	A	11066	1	1645	MDFKFLDTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAIFYQLISNFSKVSQGYRIN VQESQAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINILKMAILPKNW KKTTLKFIWNHAKACIAKSILS QRNKAGGITLPDFELYKATVT KTAWYWYQNRDIDQWNRTEP SEITPHIYNHMFIDKPKDNKKW GNDSLFDKWCWENWLAICRKL KLPFLTPYTKINSRWIKDLNV RPKTIKTEESLGNITQDIGIK DFMSKTSKAMTTKAKIDKWDL IKLKSFCTAKETTIRVNRQPT WENIFAIYSSDKGLISRIYKELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAAKHKMKCSSSLAI REMQUIKTMYHLTPVRMAIJK KSGNNRRTRENYFKIHESKKSQ NSQGNRKEQSWRRHATRLQ TIVQGYTVAKTACYWYKNRPT DQSNRTENQEIRLHTYHNHIFD KPKDSNGETTPYSINGARITG
11005	41373	A	11067	1961	2588	KLAQDRDALSPPLLFNIVLEVL ARAIQKEIKGILGKEEVKLS LFADDMIVYLENPVSAQNLLK LISNFSKVSQGYKINVQKSQAF YTNNRQTESQTMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVNIYRFNAIP IKLPMTVFTELEKNYFKVHMG TKEPASPSQS
11006	41374	A	11068	2	278	
11007	41375	A	11069	3	274	

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11008	41376	A	11070	261	1382	LELSFPAGQRGVLSGDPQNLCTCPSGSWHVPRCWAVRQRPNLPRTVTQLVAEDGSRVYVVGTAHFSDDSKRDVVKVSAAATHIIPDTGWCKLLPGSRDGLVRFPTYRVSMKMDSTLLREAEQLSLEKLQQAQRQVRSRGQSGSGSGSKPPHITEQLGMAPGGEFREAFKEVGTG*GRGWPGCGSQAVTFKRAIAALSFQKVRLEAWGLCFLSDPIR*GCPDRDGRPAGWSVGMAEMIGEPDLHRTIVSERDVIYLYMLRQAARLELPRASDGDGRPQAWDPL*G*GPRGHVPGIEKNWSTDNLQIEIM*VPAPPCKPHTSPQVAFFGLLGYSLYWMGRRTASLVLSLPAAYCQCLQR
11009	41377	A	11071	3	506	KDCQF*VGPEQKKALYKVHAPIQAALQLGPYE*ADQKRTCVRFGRHTCETAFTFWKSLGLDKVTKPRSSSSQLLALAIRSSPGSTTDACLLDSFSGKSRISSWFGS
11010	41378	A	11072	2	374	IRRESTHLQALGTTTPQDRLCTGHSQAQPPACASPLPPGPP*SSAWPLPPSTRLARQKQAAATAQP*PLTTQTTLGPWSSASTWTSAHKQPGAAAQEWSTAGSRQLLAGASGSSPSSCSVWTN
11011	41379	A	11073	3	553	
11012	41380	A	11074	239	547	GHHFQMNNVCRCSVWMLSLEPHVPGQIHSC**ERAKLCGKEFRMHNLMMGHMLHSDSKPFKCLYCPSKFTLKGNLTRHMKVKHGVMERGLHSQVSRPSLEA
11013	41381	A	11075	1	267	MAISMVTTKSTTIRITTAAGCHYENDMAHNHSDRGGGLPKVVLVLTPTFLTPPGKGGGAAGALERTEEGDRDAGGAAQEGGLTPTSPVPSS*HTLWLRTVDPFASTSPSTRHPYPNRRGGGGRALPHPRR*V*AGCHYENDMAHNHSDRGGGLPKVVLVLTPTFLTPPGKGGGAAGALERTEEGDRDAGGAAQEGGLTPTSPVPSS
11014	41382	A	11076	1	1707	
11015	41383	A	11077	1	1407	

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11016	41384	A	11078	1	1275	MVKGSIQQEELTLKIYAPNTG APRFIKQVLSDLQRDLDSHTIM TGDFTNPLSTSDRSTRQKVNKD IQELNSALHQADLIDYRTLHPK STEYTFFSAPHRTYSIIDLIGGSK ALLSKCKRIEITTNCLSDHSAIK LELRICKKLTQNRSTTWQLNNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTSHKASRRQEITKIR AELKEIETQKTIQKISESRSWFF EKINKIDRLLARLIKKKREKNQI DAIKNDQGDITTLERVVLEEDP TLHLNNTYTPRKVLYRWNRQSS TSVIETNKTSVELSLPFDEYDIIIE IKPFSDGGDGSSEQIRIPKIS/NK KTK*PNPWRQK*G**LAVADA YARGSGASTSNACLTSAISTI
11017	41385	A	11079	1	426	MLHTKQHLSMGTEDMDDKLH FSDCSAASLVSLSTTTGGHVL NMSADIARYLPVLYRWNRQSS TSVIETNKTSVELSLPFDEYDIIIE IKPFSDGGDGSSEQIRIPKISNA *ARGSGASTPNACALSAISRIMI SLTARSSL
11018	41386	A	11080	3	620	DRTLAEPHTAPARSGHRGWC PRPHRRRRNRGRQLLAPGRGA DPGAGEAATVQWRLRGQPAA ALHVQQGAGDAANAGLQRGA HADSHDRAPAGHAPGPVAAA GRGHDGQVPAALG*AGGPVGL RRPEPPLQTRGKGR LAPATQQV GQARRLPTRGQLLRRPQPAA HHGPRPRLGGRGRGGSHKSPPH GIWPRLAGWRATLE
11019	41387	A	11081	335	640	PLGVLWSLVKSLVHSDAGAGE L*EVITGSTWPNP*QCCLVPNV DDEEEGEEQDDDDDEEEGL*D IDEEGDEDEGEEEDDDVVEEG EEDEGEDDWKFAKE
11020	41388	A	11082	2	204	

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11021	41389	A	11083	3	1471	SKDTKRDVDSKSPGMPLFEAE GVLSRTQIFPTTIKVIDPEFLEEP PALAFLYKDLYEAVGEKKKE EETASEGDSVNSEASFPSRNSDT DDGTGIYFEKYILKDDILHDTSL TQKDDQGGLEEKRVGKDDSYQ PIAAEGEIGWKGFTICREKSL PKGVYGEGRISRPCGDRW* AEESHHIRGRQSGYPENKLCGF LLKTPHHVLERADEAGSHGNE VGNASPEVNLNVPVQVSFP FASGATHVQETSLEEPKILVPPE PSEERLRNSPVQDEYEFTESLH NEVVPQDILSEELSSESTPEDVL SQGKSEFEHISENEFASAEQST PAEQKELGSEKKEEDQLSSEVV TEKAQKELKKSQIDTYCYTCKC PISATDKVFGTHKDHEVSTLDT AISAVKTVIRDSOKTKSGEGAY GREMKSPHKFPEGKIHNDKEH DRIVQEFLAETGPKVTRFNEQC RFRPRIVYVENNQTMVEEPPQ
11022	41390	B	11084	148	235	
11023	41391	A	11085	30	420	VSGTRGPSPCLGTSWASGAWR PPLGGLPPSAGANGPRVRSAA GCSLVAGCKVLGSWVSGFAGR SHVACAGSSGESVVRARCPGTA* AAGGPGPQAFQAA*YQGSRMH RAPPRPNRQVQTWWEAGAGTG
11024	41392	A	11086	2	73	ERLRMPGVAKGRPR*GNPRRG RG
11025	41393	B	11087	1	1412	
11026	41394	A	11088	39	427	PPYWGHHFSSAAASAALKGKD GGSSRSLVPPAQ*HSHSPSKTHC VHTPSRSCAQLTHLTQSPPSL KIAQSPSFDARAHARLRWQIPS APRVPPLSALSPTRTAGSVRFE SQSTKTSRSHRFLPRT
11027	41395	B	11089	1	813	
11028	41396	A	11090	3	365	RTPSSKGCGRPPRGMGAQGS GCGRRRSPRRSQARRWSHPC* PPSPPPWPRPARSPPGCSHRAAL SSPSPSSFLARHSARPLALAL GPPPWCSGSCASSAPFDLQHPE QSQNQDARG
11029	41397	C	11091	295	412	
11030	41398	A	11092	21	164	GAVTENDFYDLVRTIGGDLVE KVDLIDKFVHPK*VKSFLILPLT SV

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11031	41399	A	11093	1	1373	GISTMVGSALRRGAHA YVYLV SKASHISRGHQHQA WGRPPAA ECATQAPGSSVVELLGKSYPD DHSNLRKVLTRVGRNLHNQQ HHPLWLIKERVKEHFYKQYVG RFGTPLFSVYDNLSPVTTWQN FDSLLIPADHPSRKKGDNYLYN RTHMLRAHTSAHQWDLHLAG LDAFLVVGDVYRRDQIDSQHY PIFHQLEA VRLFSKHELFA GIKD GESLQLEQSSRSAHKQETHMT EAVKLVEFDLKQTLRLMAHL FGDELEIRWVDCYFPFTHPSFE MEINFHGE\WLEVLGCQVMEQ QLVNSAGAQRIGWAFGLGLE RLAMILYDIPDIRLFWCED\ERF LKQFCVSNINQKVFPQLSKYP AVINDISFWLPSENYA\ENDF*Y LVRTIGSDLVERVDLIDKFVLPK THKTSHSYRIMYR\HMEPTLSQ\ REVRHI/HIQAQEA AVQLLGV
11032	41400	A	11094	8	119	
11033	41401	A	11095	2	475	QAGPSGGIPEGIAITGDDSSMHA IAPEDLPVGGQDVEA EDSDTGDL DPVLTVFRRGVEREFFSNWYKT AWSFSKLAQKGLSS*PSSLSS SSSSDKAVTAGTELFASSLSSSS DPRRSISSSSLLFVAPLPVVSSTL AGPYLPTAFTTPGRLAFSFS
11034	41402	B	11096	677	696	
11035	41403	A	11097	1	357	STMIEAHVDVRTTDGYFFLLFC VGFTKKHNNLIPKTSYA*HQYQ ICLPHQDDRVTHQNPSLPDGSIA RVL SIYYLISRRREMNSIISQGL QKVHIHIVPGSLMNQELDDLI TVFFKA
11036	41404	B	11098	1	541	
11037	41405	A	11099	14	671	PAPWRLGKNKRLTKGGKKGA\ KKKGVPNPSKKEWYD\VKAPA MFNIRNIGKTLVTRTQGTKIAS DGLK/GVRVFEVSLADLQNDV AFRKVKLIT\EDVQGNCLTN\F HGMDLY/TRDKMCSMVKK\WQ TMIEAHVDVKTTDGYLLRFLC VGFTKKRNQIRKTSYA\QHQQ VRQIREGRWMEIMDPRRWQD QMDLEE VGHELIAGSIWKHRH KGLPIYLSSP

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11038	41406	A	11100	1	217	RQGLTLSFRLECPGVISAHCSLN LPGSSKPPASAPQVAGTTGVYH HAS*FFIFFVEMGFHHVAQPL CNFVF
11039	41407	A	11101	2	442	LDVQIQEAQRTPGKFIKRYSP RHFVIRLSKLTKERILRAVRQ KHQVTVYKGKPIRLAADFSTETL QARRDRGPISLLKQNNYQPRI LYPEKLSIIYEGKIQSFSDKQML REFAIRKPPQLLELLKGSLNLETN PGNT*KQNFFKA
11040	41408	A	11102	2	545	EPRPGEKTAHVYGPDCLCGSCV QLSFGSAFFSTRWVSYEQANCK GEQFVFEKGEYAHWDWWTSS QRT/DLSSLRPIKVDSEHKILY ENPNFTGKKMEIIDDVPSFHA HGVYQEKVSSVWLRSGTWVGY *YPGYRGLQYLLEKGDYKDSS DFGARHPQVQSVRCIHD MQGH QCGAFHPSK
11041	41409	A	11103	2	389	EIIIDDDVPSFHAHGYQEKVSSV WVRSGM*VHCQPWLTLPQELR LWGPRSGETLALTAPVSKTCD FGARHPQVQSVRCIHD MQGHQ CGAFHPLGTQEEEEAGQKEQM EQVPFWLARGDICELSGKKS
11042	41410	A	11104	1	446	MEEEELEFVEELEAVLQLTPEV QLAIEQVFPQDPLDRADFNVA EYINTLFPTEQLPMPSAHGGVSS CGNAGGPVSFATRENARCGIW GSGGVCDGVFGA/GAAGWGGV *GGGALGWMLSGRRIVLRS AIF TSPVSRAGSPERGWS CDC
11043	41411	A	11105	1	210	SSDGRHLAFDQGS PG*VLGHVG KQRAVDVQPSVAVRVRQPLLL LSTIMSGLLGWEQGIDILNSIEI CSI
11044	41412	A	11106	2	287	AAESPGRSTRTDGAGLTRSLPR GSR CAGAWVAAGGLSWARGG GRQEAGWRNDG*GGTGARGG AGSRAAAHARGAAGHRASVSK PGPSRSSRFQCC
11045	41413	A	11107	150	389	GEEIAWLGAA RPKPTPSRIPL* PSLFPWRPHKFPERSVFAQSQP ASQSPPLRPPPSHPEGSCLSGR LPPPGYLLPLR
11046	41414	C	11108	43	213	
11047	41415	A	11109	3	246	SSFPAPAREGALAPCRCLAGISV TLQGNP*GRCHHHHHHHHHHH HRCYDSQESGKLPRPGPKAELE GPPAWLLVGP GAHP

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11048	41416	A	11113	1	726	
11049	41417	A	11114	2	251	LSCGRSLHQGSVTSCKTINALT LTVDTWRGCAW*GCACTFHCR SATNMIRAYVVFSTISVLSLQEI RLSLRAILADLRSLICF
11050	41418	A	11115	1	1041	
11051	41419	A	11116	1	398	MGPNSTLENLLKGATSVFYNR DQEEAQKKERKLGRGTKALAA ALQ/SWQSPGAPRCIH*LLSVW QARVF*RGMPRQQDEATSLSI QWQKPVETELSPDMEVTGFRA SLTDERVHLEPVLPEQYTEQRR QGHL
11052	41420	A	11117	5	137	
11053	41421	A	11118	5	272	
11054	41422	A	11119	2	211	WNQPRCPSTVNWIMKIWIYIT MEHYAAIKRNMIMSFATWME LEAIFLSKMPQ*QKNKYCVFLH ACLES
11055	41423	B	11120	1	1560	
11056	41424	A	11121	1	588	
11057	41425	A	11122	80	574	EPAAQGNVLVDLLC*MKNRNR WLPNELSQLVHTQSQFSKTG MSAKHTAFAMRMSPAQMIDIV VGLSTGQSPFMVLMQGGHSA MQETRIASLPVTAIPAGMKIPCV TAGSACMVGPSVRVNEWFSAY GMAGMAYSRVSTFVRGLSPRY LTTREAPGCGSSAGH
11058	41426	A	11123	48	131	
11059	41427	A	11124	1	1195	
11060	41428	A	11125	2	1028	
11061	41429	A	11126	1	1008	NMMEQVLDIPSL*VISKDNANV TIDAVCFIQVIDAPRAAYEVSNL ELAIINLTMTNIRTVLGSMELDE MLSQRDSINSRLRIVDEATNPL ALKIAARMIEDGELDKRIAQRY SGWNSLGGQILKGQMSLADL AKYAQEHHLSPVHHQVAEWM RARNGQLFRLRSNHLTLLEQN NFIYARGAKIYPDIIHIDRSKKCP SDLFAANARCGICQSDERCLR YQPRRERGLYRIDITYPGKSYTT TALPSRFVWFVTGKAQSTQAS ALSIDISLLYHHLDLVYQRLGH LDDGTDSDWNHVPTLNGQCTLV LIHEYVDTRGPEIKTILVISWWN ILVFH

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
11062	41430	A	11127	3	333	DIQIGEEENRKRWLRTGKCSFLP KEREWMDRLMSWGLVDTFRH ANPQTADRFSWFDYRSKGFD NRGLRIDLLASQPLAECCV*T GIDYEIRSMKPSDHAPVWATF RR
11063	41431	A	11128	2	136	YCKLACLQVDSRGSQVFALDV AARHR*QFAMPESDAVAMKHL LS
11064	41432	A	11129	3	431	GVFGRVSEKQRPAAAPAGERPL PRPRPLPCGAAARTGPFAAQAA *RAAAAAPRSERRHHGAEEGH QRCIYRHAADRALGEAARRTG YALRPAGEPELAAAARRR*RAP DPGPRVPRHLGLLATRACPPGG AHCSPERGAISW
11065	41433	A	11130	64	2436	RRQGLEGWWAIGLEGLTGKAL AWLFTVPGVRGLQWSPRFFLTR LRTLCKVLGVLFVAGGKKG PTCILQILKGQRRQEA*CSIGWA ERVWASGQA*WEVWLHWAKS RNWFLFWKQHVHALRVRLDTT LFSLEEGSSFWNQGLTWKVVR RTFSFSINHTPRITLGVPSVHSF QLPGLLNFGFEKVCVLSPRIFN LTHENFLSSEGPEIGLLGATFN CLNKRLAKYMRNRNVHPKPLV RYLHSLRPPEAAAP*AWCGPR HLSCROMSSSSQIGNDSFQLQV TPVHLLPLSHITRKNPEMYDLP LLFFNPQESAILQLFHQDGECLH CSPVIGDWCHLGHGQACPSFSV PSGLFVPSLLCGAAFGRLVANV LKRYSVCVRVCAHVHVCARVR VYACVWVRMTISLTVLIESTN EITYGLPIMVTLMVSTLPPGPCQ AQGHVVRPTGPIFRSLEWETE EMDK*GHDFAHVLVSECISSEA *GMLFCGPGDRSLFSTFRAVW SLSRLLDSVIAAGKQ*A*RT*SV GYSLLCPDLKGDPSAVSILRTT VHHAFFPVVTENRGNEKEFMKG NQLISNNIKFKVKTA*EERQV RDKRSRLTRLSELELRNMCDE HIASEEPAEKEDLLQOMLERR* EPGGAPTARRATQRWGEPLAQ MFPLTFHGLILRSQVLTVLLVRG VCYSESQSVSLSEAEISQARPDE
11066	41434	A	11133	3	80	

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11067	41435	A	11134	2	958	LKCELSVDQGLAPAIQTVRLTHE SLTALEIPNALLQTIQDLILDLR VRCVMATLQHTAEIEIKRLAEK EDWIVDNEGLTSLPCQFEQIV CSLQSLKGVLECKPGEASVFQQ PKTQEEVCQLSINITQVFIYCLE QLSTKPDADIDITTHLSGDVSSP DLFGSIHEDFSLTSEQRLILVLS NCCYLERHTFLNIAEHFEKHNF QGIE*ITQVSMASLKELDQRLFE NYIELKADPIVGSLEP*YAGYF DCKDCLPPTGVARNYLKEALVNI IAVHAEVFTISKELVPRVLSKGI EAVSERAQSTDAVCFILOQKWS
11068	41436	A	11135	52	1053	MDEEERVYRACYLICISLLSSPG NPGHSPMLDLNDNTRPSVLG HLSLFLIQKYNHSLFFSPLAWR YKTPHRVAFVEKLTKLVLSQLP YF*IIISNMFFVFLIFKTAESNP INHI*TRLCLFLVF*KMIQEVMMH SLVKLTRGALLPLSIRDGEAKQ YGGWEVALRSHSAHFCLDVFFV RRLTHESLTALEIPNDLLQTIQD LIFRPGSQL*PVSRIFFSAGTFRF KNHLHDFTGFHTCLTGAPRGPV GGCASDDGQAAADTSQWLS*I VLYL*LFLASMFSLSDVDVFL AP*R*FSKHLFCF*EQRLILVLSN CCYLERHTFLNISHGSP
11069	41437	A	11136	50	426	
11070	41438	A	11137	2	949	QQVWKQNCFKHYSNETDNSTT QLVGVQTLQVVVPSLICEHCM NFSSPHVWCCMVQAVPGGQGO TIMQVPVSGTQGLQQVSN*KY *AVYQRRGFKE*ITTGQTQIII QQPQTAVTAGQTQVIPLASHR SKTDLEESDN*VRYQPVNADGT ILQQGKCTHKLP*DGLGQLFCPL DN*HTTSSGGQGTVTVTLVAGN VVNSGGMVMVRKCFQLCL*N FLEHAT*CLLKEPLYVNAKQY HRILKRRQARAKLEAEGKIPKE RRVCITLGR*ERRIAGFYF*NY LFSPKEKDSPHMQVGRHIFILL FITLY
11071	41439	B	11138	26	80	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, v-possible nucleotide insertion)
11072	41440	A	11139	203	797	HRHARHLFRTTPT*LSWQGS *TPRWKGVRAVVTQPRKERRA ESEQFQATKPRSQL*LQPPTPSL VSSCQLKTTAASRPLT*PSKSVY PSAPFHPWLPC/SKPERSVSPES NDSISEELNHFKPIVCSPTPPK RLPDGRVLSPLIJKSTP/QPKQK PAEADFL*GQSTDPQKVGTDLS GAADQKDPFKSHSYLSGS
11073	41441	A	11140	33	379	EATSNFKQPPSLPFWCLKSRSTL KPRQSKVCSSSFPVI*GKTGNEL ALQIP*FKSSCGPRFPD***PAGR /SAPSLGPPSPQSCAHQ*EHWVQ VCIKHGITNAEPPAEHLKVLVR E
11074	41442	A	11141	248	622	SESSGRFWLCGLGPGTSPILLSL KFPHELLPASGRSPSPRPVR GKATQVVWAWGYRCVDEDP RCLGTPGRTD/PHCGQGLLCPL GKSCSTSQPLSQDGRGTSWDR SHACSPGGHPHRCIGCM
11075	41443	C	11142	1	1311	
11076	41444	A	11143	452	1286	
11077	41445	A	11144	2	299	GLPLAHGLGRFGMDRIYEGQ VEMTGD*CDVESIDGQPGAFTC YLDVGLARTITGNKVFGALKG AVDKGCSVPHSTR*FPACDSAE FALGIPYFVQPN1
11078	41446	B	11145	49	832	
11079	41447	A	11146	1	1074	
11080	41448	A	11147	1	360	
11081	41449	A	11148	1	1155	
11082	41450	A	11149	75	266	
11083	41451	A	11150	2	222	
11084	41452	A	11151	1	549	
11085	41453	C	11152	453	665	
11086	41454	A	11153	1	1962	
11087	41455	A	11154	1	295	ASTAGVSYYYAAGLKLGLS LSKCRDPRCEPPCE*MSLYKV MAMARKAMSL/YIYFFLDEFM YFAGTWKLETIILSKLSQGQK TKHRMFSLVGGN
11088	41456	A	11155	1	363	
11089	41457	B	11156	1	375	
11090	41458	A	11157	1	197	
11091	41459	C	11158	1	270	
11092	41460	C	11159	1	146	
11093	41461	C	11160	1	268	
11094	41462	C	11161	1	301	
11095	41463	A	11162	1	289	
11096	41464	B	11163	19	240	

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11097	41465	A	11164	2	253	
11098	41466	B	11165	1	978	
11099	41467	B	11166	1	316	
11100	41468	A	11167	191	319	
11101	41469	A	11168	608	763	
11102	41470	A	11169	274	437	
11103	41471	A	11170	1	417	
11104	41472	C	11171	1	792	
11105	41473	A	11172	3	449	IYLTKEIKDLYKEKCKTLLKEIT DDTNKWKHIPSSWMGRINIVK MTTLPKAIYKFNAIPFRIPPSFFT ALEDTILKFIWNQKR/CPHSQCK IKQKEQIWRHHTT*FQAIL*GHS HQNS/IGTWMKLENIILSKLLQG QKTKHCFSLIGGN
11106	41474	A	11173	1	441	
11107	41475	B	11174	1	597	
11108	41476	A	11175	5	265	
11109	41477	A	11176	3	280	SIYPNTCTRMFIVALLTIAKTWN QAICPTMIDWIKKMWHIYSME YYAAIKNDEFMSFVGWTWMKLE TIIFSKLSQGQK\TKHRMFSLIGG ELEQ
11110	41478	A	11177	590	747	KAYQPEKAQDQVDSQPNSRTRG TWMKLETHLSKLTQEQTCKHC IFSLISGS
11111	41479	A	11178	3	274	FYYKDTCTHMFIVALTIAKTW NQPKCPSVIDW/IMKNMWHIYT MEYYAAIKNDEFMSFSGTWMK LETHLSKLTQEQTCKHCFSLI SGS
11112	41480	A	11179	1940	2061	
11113	41481	A	11180	493	743	KATRSVNC/WWDHL*RPFWGS PH
11114	41482	B	11181	1	1248	
11115	41483	B	11182	50	8445	
11116	41484	A	11183	40	125	
11117	41485	B	11184	1	1896	
11118	41486	A	11185	1	624	
11119	41487	A	11186	1	357	
11120	41488	A	11187	1	304	
11121	41489	A	11188	681	834	
11122	41490	A	11189	3	2128	
11123	41491	A	11190	175	402	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
11124	41492	A	11191	46	790	NPGAVKMPAYHSSIMDPDTKLI GNM/AHLLPIRSQFKGPAPRET/ KDT\DIVDEAIFLPSGPNVFFKN YEIKNE\ADRTLIVITLYISECLK KLQK/CQFPKAQGGGKEMFYA GESTNFSHFLGEPGFPTLTAILC PNPANK/QEDE\VMRALFTNQ KGRRLGLRLCEKSFSDP\QNG* T PAKWVWDLAFVKRQFMNKSLS GPWTVESGPGQPTVSRGPGAAF FQQDVTQSFCLYLKFKYRDERR ACLYLKNS
11125	41493	A	11192	1	828	
11126	41494	A	11193	1	525	
11127	41495	A	11194	43	1826	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGRVVVRRL AVVRSGRSLSLTADMTKGLVL GIYSKEKEDDVP/QFTSAGENFD KSLAGKLRITLNISSGPPKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAGCRQIQDLELSSVEVDP CG DAQAAAEAGVGLGYEYDDLK QKKKMAVSAKLYGSGDQEA W QKGVLFASGQNLARQLMETPA NEMTPTRFAEIIIEKNLKSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSNPANE PPLVFVGKGITFDSGGISIKASA NMDLMRADMGGAATICSIAVS AAKLNLPIIIGLAPLCENMP SG KANKPGDVVRKNGKTIQVDN TDA\EGRLILADALCYAHTFNP KVILNAA\TLTGAMDVALGSGA TGVTFTNSSWLWNKLFASIE TG DRVWRMPLFEHYTRQVVD CQL ADIVNIGKYRSAGACTAAAF L KEFVTHPKWAHLDIAGVMTNK DEV PQSTGKA*LGRPTRTLNEF L LIRFSQDNCLVQILKNVHVS VL NWTVELKKVFE
11128	41496	A	11195	1	273	

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11129	41497	A	11196	2996	8256	LPTRRSWAVFFKGGESGAHTLR RKARKKKKKQVKGGSPKKGEE AKKVEAPRLPKLAAPGGGAGA KGGAGGTSMDRLWSWVLHLG LLSALGCGLAERPRRARRDP AGRPPPAAGPATCATRGPRPP RLAAAAAAGRAWEAVRVP RRQQREARGATEEPSPPSRALY FSGRGQLRVLRADLELPRDAF TLQVWLRAEGGQRSPAVITGL YDKCSYISDRGWVVGIIITSD QDNKDPRIYFFSLKTDARQV
11130	41498	A	11197	75	266	
11131	41499	B	11198	1	363	
11132	41500	A	11199	1	649	PRIRHEVIEEVRIMMLEIINSLT NSLHHNPVLVYALLYKRDLE QFRTHPSQDIMQNDLVISFSS SRLLQAGAEISVERVLEISQGV ALRCPKDRLKEISQKLKFKYVE EEQPRGVF*SPYVWSLVQLQ SALYWEFHRTQLFHPWDSRLR GRDASSPGTPSSQGRPFQSSFIS GVTEVGGTGYLVYLLKEDCT SVFSSHTLIWRIGC
11133	41501	A	11200	108	210	
11134	41502	A	11201	53	259	
11135	41503	A	11202	1	2679	
11136	41504	A	11203	1	675	
11137	41505	A	11204	834	1077	KGLWTVPPSFGDTVSGPPVPTG GSAGHTVPPPPR*CRQPPPSPP WRLFLPQLRSRSSQPPAGPAR HLPPPAARPECFCA
11138	41506	A	11205	1	681	
11139	41507	A	11206	1777	1940	VPILPQPLLLHPHLLS*VPILPQP/ PAPPYNNPFTSPPHTWGLQFH SVTSPPPAQOFTLKRVAEAKGI VK
11140	41508	A	11207	3	547	
11141	41509	A	11208	1	578	
11142	41510	A	11209	194	379	
11143	41511	A	11210	1	927	
11144	41512	B	11211	1	916	
11145	41513	A	11212	1	441	RRKLQKQALGPEQNLETLNL ATSVFYNRDQEEQVQKEKRDQ RKAALVMAIRQTNLGGSERT EHEAGQSPGKACYQCGLLGHF KKDCPMRNKLPPR/RVSTMLRQ SLEGALPQRMKVPWVRSPOPD DPTTLGRVPGASASSCHHPH
11146	41514	A	11213	164	359	
11147	41515	C	11214	157	189	

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11148	41516	A	11215	13	399	VEAFPTGSEKATAVISSLLSDIIP QSRLEPTISIPSDNRRAFISQISQAV FQALSIIP*NLIPYIPGPSSRKH/T LTKLSHLKKDWTILLPLSLRLI QACPRNATGYSFVKVLYRHSFL LRPSLIPDTRPT
11149	41517	A	11216	2	152	WYGEIMGDVQSQCIFER*WAMF LRAASSGIRGGVGT*SGRH*AE GRFYGDFRGNRAASVFSR
11150	41518	A	11217	1	1143	
11151	41519	A	11218	28	453	
11152	41520	A	11219	275	1128	DISTPSLATDHMPITIPNLIT/TY PTQRQYPIPPHALKGLKPVTDDL LQHRLLKPINSPYNSPILPVQKP DKSYRLVQDLRLTNQIVLPIHP VVPNLYTLLSSIPSTTHYSVLH LKDAFFITPLHPSSQPLFAVTWT DPDTQQSQQLTWAVLPQGFRD SPHYFSQALSHDLSFHPASHL IQYIDDLCSFESSQDQDILL LLQHLFSKGYSQDDRPFTSQI TQAVSQALGIQWNLHIPHPQS SGKVEWTNGLLKLLLLLLTANI DDTSYLQIPHKGLO
11153	41521	A	11220	1	606	
11154	41522	A	11221	713	835	LSQWRSDNGPAFISQITQAVSQ APGIQ*NLIPYIPHPQSSGK
11155	41523	A	11222	1	1133	AEALPQFYFHLSDIRGMLLHE PDLQKGKAVSQEDPQWSYQA DSPGIARRDYMVSRLVEGLKK AAYKAVNYDKLKKTTQVTIVP GPDFNLASHIIPDTPDPHDCYL SDTPGIHSISHISFAIPHPDHTW FIDGSSTTPNRHTPAKAGYAIVP STSIIEAALPPSATSRQAKLIAL TRTLTLAKELCVNIYDSKYAF HILHHHAVIWAERGFLTKQGW SNINASLIKTLKATLLPKEAGV IHCKGKHQKASDPIAQGNTYAD KIAKEAASGPTSVPHGQFFSFL VTPTYSPTKTSTYPSLLTQGKW FLDQGGYLLPASKAHSLPSFH NLFHVGKPLAHLLEYLSFLS WKSILKEITSQ*SICYSTTPQG
11156	41524	B	11223	1	1156	
11157	41525	A	11224	1	4991	
11158	41526	A	11225	3	590	
11159	41527	A	11226	203	1772	
11160	41528	A	11227	1	1669	
11161	41529	A	11228	1473	1604	
11162	41530	A	11229	82	159	

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11163	41531	A	11230	1	1323	
11164	41532	A	11231	377	631	LLKGKLTNRKDIHTKTPSVRRH HRRPKPGRDITTKIILNQYPW* TSMQKSSIKYWQTESSTSKLS TMIKLASSLGCKNWKKL
11165	41533	C	11232	1	1677	
11166	41534	A	11233	753	966	FVFLWSLMMVTYRWGFGVDV LSVC*FSFQSQSEPQLQVCWSLL EVHS*PCLPGYQQRNCSWPRG SCDVVIT
11167	41535	A	11234	1253	1459	LSDSPKLK*RKKC*GQPERKVG LPTKGSPSD*QQISWQKCKPKE ESGGQYSTFLKKRIENPEFHIQ
11168	41536	B	11235	1	924	
11169	41537	A	11236	299	436	
11170	41538	A	11237	259	536	FQKEWYQLLVPLV/EIWL*IH VLDF*LVNY*LLPQFQSMMLV SSEIQLLPGLVLGECMCQGIYPF LLDFLWSLMMVTYRWGFGVD VLCVC
11171	41539	B	11238	79	1587	
11172	41540	A	11239	1608	1763	
11173	41541	A	11240	1	2001	
11174	41542	B	11241	1	741	
11175	41543	B	11242	1	1368	
11176	41544	C	11243	1	3924	
11177	41545	A	11244	470	619	KVTRGWGSPHQDAG*SPCQSH QDQTP*GILKEHQEKARRK* RQLCVLQL
11178	41546	B	11245	1	3546	
11179	41547	A	11246	363	476	
11180	41548	A	11247	1	759	
11181	41549	C	11248	376	986	
11182	41550	A	11249	556	821	MSIRSTWRRAEFNSWVSFLTFR LVDSLVLFDGDDVQVGFWCGC PSCLLVFL/ISQDPQLQVCWSL QEVHSRPCSPGYQQRLQYSEY
11183	41551	A	11250	119	340	
11184	41552	B	11251	1	942	
11185	41553	A	11252	436	732	LHIWPFLLPCKAQNVHCSKFC PLGRFPFMAVLQGCPRKGL*CC SCPLGGIWIWISCRICAFRTYLRP IMYIPLPFADGMLLCTAHSMAR CFGYCSLVV
11186	41554	C	11253	1	1878	
11187	41555	A	11254	720	1535	ILPEVQGGAGTI*LSLFLIE*PLF LSPA*LPWPELPTLC*IGVVRDG TPVLQCFSGKMLPVFAHSV

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11188	41556	A	11255	2	1059	WLLAASPLWLCRIRP/LILAAFM GWQSRSA LGTQSESGKGS PD QVLVPQDCGPWLGSVELVSP GSQAGEEPILSENKGRVTQMKI PEERSGSNICCSAIFAVLQPPLLI PRQTRSGVDLQQNPDTLQRLVL TVRRKTNKEKGHPHQNPCTCTSP ASKTKGALRFIKQVLRDLERAL DSHTIMGDFNTPLSTLDRSTRQ KVNKDIQELNSALHQVDLIDY RTLHPKSTEYTVFSAPHHTYSKI DHTVSGKALLSKCKRIEILTNCI SDHSAIKLELRICKLTQNHSTTL KLNLLNDYVWHKETKAEIK MVFEIDENKDTIYQNLWDTFK AVCRGKFIALKAHKRKKQERV
11189	41557	A	11256	82	159	
11190	41558	A	11257	820	1358	HTDGLVWMPFLFVSFSPNSQD RQLQVCWRLLLEVHSRCPFGY QQRWLQNNRY/SVNRKCCCLIV PLEVLSQRSTHQHVGEWLCLL GRKFPAGMEACTAMLCSSSL EAATLSFSVQHRCTGGS*KPQ QGRVYPSEGREHNGAAAFGPF CSSECPASCPDPTQPCAPGTYI PFFSCQT
11191	41559	A	11258	2435	3261	QVRGYRCRFVTWVNCMSLRFG VQRIPSPSLTGTQPPVGD*HLT RPGTPLR*NFORNDQAVTFVH VHIFVQPLLLIPMQTSGGVDLR QTPTDLQLRVLTVRRKTNKQK GHPHRNPICMSPSSKTKARQAN IQJQEIQRTPQRYSSRAATPRHII VRFTKVEMKEKKLRAAREKGR VTHKGKPIRLTVDLAETLQAR REWGPFIENLKEKNFQPRISYPA KLNFISEEEIKSFTDKQMLRDFV TTRPALQELLKEALNMERNNQ YQPLQNHAKL

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11192	41560	A	11260	1439	2544	VSSTTKEKALSVPPRWICILQKK NPPNHQPVSLPEVFLPQILKFSG PPHWRRIEYKVMRLNIGDM KTKKKMLEKYEQLERHQQKS RT*KAVCCIT*LSRHILLGQAPL VQQSM*QPESHQVNPPTS YGIHQTPKLS*IGIK*RPWIM/MSEV KGYKVGNNFFAKAPNRAPPLL KPRQTGSGVDLQQTAPDLQLR VLTVRRNTNKQKGHPHNPICIT SPSSKTKEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPMME DQNMENKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLIGVPE SDGENGTLENTLQDIHQENPPS LARQANIQIEIQRMFPQR
11193	41561	A	11261	2772	3111	QSGPSAAGLLEFAGGFLQTLFA WVSAAEVKGCKGSGSSLS*PK KGVMDGTWIKGSLPPEYCAFPPT G*KNGAP/LRLYPTPGSEGPPTT ESP*/FASTAVGDQATARQQRGW GRGARH
11194	41562	A	11262	248	597	DRCPAAWDRHPAGIQSSRREPS KATWTLRSKLSVQDGRDSSL RLNCKVAARLGAGHPMLRLG LRC*YPGKQGLEWTSKLLQQTIC H*GS*LLKGKLTNRKDIHSKTPS VRHYHQR
11195	41563	B	11263	1	2250	
11196	41564	A	11264	1298	1681	GVSVPLLWGASQLGYLGVMDDP LAEAVCPFSDQLHSGRTSTVF KAALGQSGAHCPERCVAQS* AD*RALREHKQ*FGSTLCGPVM VVAMELGSSTMVELVSSPANS VKVFLFLHIFSTCCCLTFS
11197	41565	A	11265	1272	1497	SGLLPIKVAFTKQFLFILLRIWL *RGYVFCWSKVVTTPREQPQCIT DGYQIFIFMQKTLSCLSILGKRT MSLMQ
11198	41566	A	11266	1	1071	
11199	41567	A	11267	788	1286	
11200	41568	A	11268	3	455	
11201	41569	A	11269	1	711	
11202	41570	A	11270	225	525	GGGENFSYPWYLLVGCGWFSS SPIVPDVPFSLLLPAQKKKPAP PKVPEPKPKAPAKKGEKVPKG KKGKADAGKEGNNPAENGDA KTAQAQKAEGAGDAK

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11203	41571	A	11271	914	1261	TAKPKTNWCCRAFTSRLASTFA TMPFKKAECVGDAPATVKDE PQRISARLSAKPAPPKPEPKPK KAPAKKGEKVPKGGKKADVA GKEG\NNPAEN\GDAKTDQAQK A\EGA\GDAK
11204	41572	A	11272	3	359	
11205	41573	A	11273	440	642	WKAEREIEIPR/PKKAPAKKGE KVPKGGKKGAEGQDGDNPTE NGDAKTDQGGKAEGAGDAKR TVSHQN
11206	41574	A	11274	499	723	
11207	41575	A	11275	147	459	STYVPLSPSPSPMPKRKAEGHA MGDKAKVKDEPQRRFARLSA KPAPPKPEPKPKAPAKKGEKV PKGGKKGAD\AGKEGE*PLQKN GDAKTDQAQKA\EGA\GDAK
11208	41576	B	11276	179	400	
11209	41577	A	11277	24	601	
11210	41578	A	11278	266	441	
11211	41579	A	11279	17	570	HQPKKDLTGFVKWPYIRLQR QRAILYKRLKVHLAINQFTQAL ARQATATQLLKLAKHYRPETKQ EKKQRLARAEEKKAAGKGDVP TKRPPVLRAGVNTVTTLVENK KAQLVVIADVGPIELVVFLLPA LCRKMGPVYQCIKGKARLGR LVHRKTCTTCRFTQ\VNS\EDK GALAK\LV\AIRTNYNDRYDEI R\RHWWG\NVLPKPSVARIJAK\A EKAKAKELAH*TTGGSYQDQLQ
11212	41580	A	11280	175	289	RPCVKESGKPHLKSSTMWTTL KLLRI*PRRTTCSPLS
11213	41581	A	11281	205	361	
11214	41582	A	11282	144	396	CLEVLHKILFFEMESHVSVTQAG VQWRDLGSLQPLPPG\SSNSPTS ASQVAGIRSMRQKGRANFFVFL VEMGFHHVGGADLELL.TL
11215	41583	A	11283	241	550	
11216	41584	A	11284	2	106	
11217	41585	A	11285	2	447	PPLSRLLCPRHPHSGWPEGYSPE HLRCGLRSGTLRSRQALHCQVS SNP*PPSLWF*GCGNVL*ELCLF VLVPSVNLVQVLLSEIWEFHRT

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11218	41586	A	11286	1	2172	PAGRCRTAWAVAAQQLMLSA ALRTLKHVLYYSRQCLMVSRN LGSVGYDPNEKTFDKILVANRG EIAACRVIRTCKMGIKTVAIHSD VDASSVHVKMADEAVCVGPAP TSKSYLNMDAIMEAIKKTRAQ AVHPGYGFLSENKEFARCLAAE DVVFIGPDTHAIQAMGDKIESK LLAKKAEVNTIPGFDGVVKDA EEAVRIAREIGYPVMIKASAGG GGKGMRIAWDEETRDGFRLS SQEAASSFGDRLLIEKFIDNPR HIEIQVLGDKKHGALWLNRECE SIQRRNQKVVEEAPSIFLDAETR RAMGEQAVALARAVKYSSAGT VEFLVDSKKNFYFLEMNTRLQ VEHPVTECITGLDLVQEMIRVA KGYPLRHKQADIRINGWAVEC RVYAEDPYKSFGLPISIGRLSQY QEPLHLPGVVRVDSGIQPGSDISI YYDPMISKLITYGSDRTEALKR MADALDNYVIRGVTHNIALLR EVIINSRFGKRNLT*FLUSKGF PEAFKGHILTKSEKTQFLAIAS SLFVAFQLRAQHFGQNSRMPVI KPDIANWELSVKLDHKVHTVV ASNNGSVFSVEVDGSKLNVST WNLVASPLLSVSVDEHSEGLFQ CLSREAGGNMSIQFLGTVYKV NILTRLAAELNKFMLEKVTEDT SSVLRSPMPGVVVAVSVKPGD AVAEGQEICVIEAMKMQNSMT
11219	41587	A	11287	62	2600	
11220	41588	C	11288	277	508	
11221	41589	B	11289	94	1440	
11222	41590	A	11290	57	237	FLHAENKAHRPGISLCGLRAQP RQPASRHAW*SMRSEQRPLWT ASGRSSGQTRSSRLG

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11223	41591	A	11291	3	1968	EFDYSEDKSSWDNQENPPPTK KIGKKPVAKMPLRRPKMKKTP EKLNDTPASPPRSPAEPNDIPIA KGTYTFDIDKWDPNFNPFSST SKMQESPPLPQQSYNFDPTCD ESVDPFKTSSKTPSSPSKSPASFE IPASAMEANGVDGGLNKPAPK KKKTPLKTDTRVKKSPKRSPL SDPPSQDPTPAATPETPPVISA VHATDEEKLAVTNQKWTCTMT VDLEADKQDYPPQSDLTSTFVNE TKFSSPTEELDYRNSYEIEYME KIGSSLPQDDAPKKQALYLMF DTSQESPVKSSPVRMSPTCS GSIFFETEALVNTAAKNQHPV PRGLAPNQESHQVPEKSSQKE LEAMGLGTPSEAIETAPEGSFA SADALLSRLAHPVSLCGALDY LEPDLAEKNPPLFAQKLQREAI VHPTDVSTSKTALYSRITTEVE KPAGLLFQQPDLDSALQIARAE IITKEREVSEWKDYEEESIRE VMEMRKIVAEYEKTIAQMIEDE QREKSVSHQTVQQLVLEKEQA LADLNSVEKSLADLFRRYEKM KEVLEGFRKNEEVLKRCQAEY LSRVKKEEQRYQALKVHAEK LDRANAIEIAQVRGKAQQEQAA HQASLRKEQLRVDALERTLEQ KNKEIEELTKICDELIAKMGKS
11224	41592	A	11292	63	2203	
11225	41593	A	11293	27	586	
11226	41594	A	11294	89	288	
11227	41595	A	11295	1	522	HERFETTYFKKFP*GYVYTGDD CQRDQDGYWITGRIDDMNLN SGHLLSTAEEVSALVEH*RLQ EAAVVGHPHPCEGVNASYCFV TLCDGHTFSPKLTEELKKAIVM RKRLAPFATPDYIQNAPGLPKT RSGKIMRRVLRKIAQNDDHDLG DMSTVADPSVISHLFSHRCLTI
11228	41596	A	11296	2	569	
11229	41597	B	11297	1	990	
11230	41598	A	11298	1	252	
11231	41599	A	11299	39	174	RHIISSNEVH*KEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEEE EEEEEIPLSSL

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11232	41600	A	11300	16	379	ILDTSMPMRWTQKNFSMILAQPE QQCKTLSQNKNDRIKKKEE KKKKKKKKKKKKKKKKKKKK KKKKK*EKEKEKEKKKEKE EEKKK/QEEEEEEEEEEEEEE EEEEEEEEEEERRR
11233	41601	A	11301	1	249	
11234	41602	A	11302	1	353	
11235	41603	A	11303	1	847	
11236	41604	A	11304	3	224	QEKRRRKEKKKVKEEEEEEE EEEEEEEEEEKKKKKKKKKK KKKKKKKKKKKKKKKKKK KKKKKKKKKKGRKTDLAVDPV
11237	41605	A	11305	1	417	
11238	41606	A	11306	1	1314	
11239	41607	B	11307	1	133	
11240	41608	A	11308	45	266	
11241	41609	A	11309	35	313	FLQMEDTYIVTKLLLLRFAWL YLDLVFVLI*YRKKRRKKRRKK KEKEKEKEKKKKKKKKKK KKKKKKKKKKKKKKKEMALQS CSLWYLYA
11242	41610	C	11310	240	391	
11243	41611	A	11311	1	579	
11244	41612	A	11312	141	410	PEPILTMESKGMWQLFELTL/H NSKVNTLSKELHSEFSEVMNEI WASDQIRSAVLISSKPGCFIAGA DINMLAACKDPSRSNTAITRKH RE
11245	41613	A	11313	1	358	KWFTPMFEIKGGYA*SKNWR LSVRCGGWPLRRLMEEGSLPNP SRIYYRNKLRLKSQNNSSVDPC MRNLDECEVCRDGLWELFCCDT CSRVFHDDCHIPPVESEKMKES AGSQCCQES
11246	41614	A	11314	1	921	
11247	41615	A	11315	108	2765	

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11248	41616	A	11316	98	2418	AKLMAQQGQQGQMASGDSNL NFRMVAEIQNVFGQNLQEQVC PEPIFRFFRENKVEIASITRPF FLMGLRDRSFISEQMYEHFOEA FRNLVPVTRVMYCVLSELEKTF GWSHLEALFSRNLMAYPDLNE IYRSFQNVCYEHSPLQMNNVN DLEDRPRLPYGKQENSACH MDDIAPVQEALSSSARCEPGFS SESCEQLALPKAGGDAEDAPS LLPVSKCLAIQIDEGESEMPKL LPYDTEETFDLKTPQVTNEGE EKGCLLPGEEGESDDCSEMC DGEERQEAASSLARRGSVSSEL ENHPMNEEGEELASSLLYDN VPGAEQSAYENKCSVMCFS EEVPGSPPEARTESDQACGMDT VDIANNSTLGKPKRKRKRKRG HGWSRMRMRQKNSQQNDNS KADGQVVSSEKCANVNLKDL KIRGRKRKGKPTRFTQSDRAAQ KRVRSRASKKHKDETVDFAKAP LLPVTCGGVGKILHKKKLQGGI LVKCIQTEDGKWFTPTFEIKG GHASKNWLRSVRCGGWPLR WLMENGFLDPPRIRYRKKKRI LKSQNNSSVDCMRNLDECEV CRDGGELFCCDTCRVSFHEDCH IPPVEAERTPWNCIFCRMKESPG SQCCQCESEVLERQMCPEEQLK CEFLLLK VYCCSESSFFAKIPYY YYIREACQGLKEPMLWDKIKK
11249	41617	A	11317	1	1210	
11250	41618	A	11318	1	743	MRYKKEQLFLPKYDLGADAA ILQPQEEDCGSTQVRGGHHRK TEETGLLVTSLNQGIKPHDSVT KLLSPQRSSVLFLLLITSGVHTD SSKAVLESRRSLGYEASFLEYF QSFYKLPVDRLYAWHCSHDH NTTVAINTDRPGLLLTLTLVTI GQGSKKAPSGFHSHPAPTVMKQ QPILCDDRDFSPSFPSTNTPSQF ATNEVLTTGPPPGAG/CCQYSTI TRKTGPNCAQAGCGGARPAK
11251	41619	A	11319	314	486	
11252	41620	A	11320	3	122	
11253	41621	A	11321	1	289	
11254	41622	A	11322	1	399	
11255	41623	A	11323	3	259	

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11270	41638	A	11338	1	503	MKHQHFAALLVPEKFLIAQSTAS RVDRRQIWRDVSERGEISQCL KVGTSLSNSTDVSAVEAVRATV LGSGLTPTVLRNAGPYTRIST VPACLLGQEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEK/EEEE/EEE EEEEEEEEEEEEEEEEEEEEEE EEGEEEEERRKS
11271	41639	A	11339	1	651	MNIDANIPNKILENRIQQHIKKL IHHDQVGFIPGMQGWFNIRKSI NVIQHINRTKDKNCMIISDAEK AFDKIQQCFMLETNLKLGIGG I YLKIIIRAIYDKPTANIILNGQKL EAFPLKTGTQGCPLSPLLFNIV LEVLAIRQEKEIKGVQLGKE EVKLSLFADDMIVYLENPIVSA QHLLKLISFSK VSGYKINVQK SQAFLYTNNRQTENQIMSELPF TIASKRIKYRGQLTRDLKDLFK ENDKPLLKEIKED/DKEMEEHS MLMGRKNQYRENSHAAQLEL KNYFKVHMEPKKSPHYQVNP PKEQSGRRHVT*LQTILQGYSN QNSMVLVPKQTYRSMEQNRSL RNNATYLQLSDL*QTQEKQAM GKGFPPI**MVLGKLASHM*KPE TGSLLPYTLKYNQFKVD*RLKR* T*NHKNQRRKPRHYHSGHRHG QGLHV*NTKINGNKNQN*QMG SN*TKELLHSHKRNRYRQSDQATY KMGENFHNLLIRQRANIQNVQ* TQTNLQEKKNQPHQKVGEHGE QTLKRRHLCSSQKTHEK/NSPSL AIREMQIKTTMRYHLTPVRMAI IKKSGNSRKHQKKEEEEEEEEA EEEEEEEEEEEEEEEEEEEEEE EEEEEEEEEEEEEEEEEEEEEE EEEEKCSLKHTEAPCVKGIEITFW NKFSLCDITKSYLSGVQKLEER AHKVKLALKFKKEIKMALHGG
11272	41640	A	11340	1	2184	
11273	41641	A	11341	1	870	GSTISCARCAELRGSASRFRPLP AAAMKWMFKEDHSLHRCVE SAKIRAKYPDRVP/LTMGQLYE KEKDEDGFLCVAYSAGENTFGF
11274	41642	A	11342	2	259	

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11275	41643	A	11343	1	461	GCRRCRRRRCCCARCAELRGS ASRFRPLPAAMKWMFKEDR WLEHRCVESAKIRAKYPDRVP VIVEK/VSQGSQIVDIDKRKYAL VPSDITVAQFMWIIRKRIQLPSE KAIFLFVDKTPVQSSLTMGQLY EKEK\DEGFLYVA\YSGRGLTF
11276	41644	A	11344	1	966	
11277	41645	A	11345	1	1037	RPPFPVPGVQKCLPTRGGLHIG RWLRDRAGPPEAQDGTGGRSR SRRRPPALPNSRPSVASGREM VVLSPVAEVTIVLLD\EGTTTP IAFVKG/DILFPYIERKMLKIEYL QTHW\EEEEFQ/QDVSLEFENK A\EEADHLDGAVPIPGKHLGIG VDDLLQMM\QAVVDNVCWQM SLDRKTTALK/QLQGH/MWRAA FTAGRMKA\EFFADVPA/VR/K WREAGMKVVIYSSGSVEAQKL LFGHSTEGDILELVDGHFDTKI GHKRRRVKVKTRKVIADSI/GCSTV NKHFVFWTDVTSRRASAGLRE AGCCTLAVVVRPGNAGINR*L RKTYYSLITSFQWNYLPSST
11278	41646	A	11346	346	858	
11279	41647	A	11347	1	234	
11280	41648	A	11348	1	1696	
11281	41649	A	11349	1	234	
11282	41650	A	11350	1	1696	
11283	41651	A	11351	1	211	
11284	41652	A	11352	1	417	
11285	41653	A	11353	1	1458	
11286	41654	A	11354	219	329	
11287	41655	A	11355	132	451	
11288	41656	A	11356	1	996	
11289	41657	A	11357	1	867	MARLWGAISLWPLWAAPVWG GAAAVGVRACSSTAAPDGVGE PALRRSYWRHLRRLVLGPPPEPP FSHVQCVQDPVLRGVAAAPVER AQLGGPELQRLTQRLVQVMRR RRCVGLSAPQLGVPRQVLAL PEALCRECPPRQALRQMEPPFP LRVFNPSRLVLDRLVTFTPEG CESVAGFLACVPRFQAVQISGL DPNGEQVWVQASGWAARIQIH EMDHLQGCFLFDKMDSRFTFN VYWMKVND*SFATGAEDSGY QDANTFTLSWANLTHWQLGW LAYDRKLDCCQGMAD
11290	41658	A	11358	3	226	
11291	41659	A	11359	1	756	

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11292	41660	A	11360	35	142	
11293	41661	C	11361	151	484	
11294	41662	A	11362	1	1245	
11295	41663	A	11363	2	1464	CQAKFIMNRLKK/NERQKVQDI KEVKQNIHLIRASFAGKGKQLE EKMQPLEPEAIMLSELMQEQT KCRMFLSLISGKHGVHMDSKTG ATDSGAYLRVEEIQTTIREYYK HLYANKLENLEEMDKFLDKYT LPRLNQEEVESLNRPIGAEILAI ISSLPTKKSPGPDGFTAIFYLRY KEELVPFLKLSQSIEREGILPNS FYEASIIIPKGRDIT/KKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNL RKSINVQIHINRAKDKNHMII HEEKAFDKIQPFMLKTLNKL IDGTYLKIIRAIYDKPTANIILNG QKLEAFPLKTGRQCPLSPLL FNIVLEVLARAIHQEIKGIHL GKEEVTLSLFADDMIVYLENPI VSAQNLLKLISNFSK VSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASRRIKYLGIQLTRDMKD LFKENYKPLLSEIVTVF
11296	41664	A	11364	41	559	
11297	41665	C	11365	63	370	
11298	41666	A	11366	3	211	
11299	41667	A	11367	47	358	PDMGLEDEQKMLTESGDPEEE EEEEELVIGLRLSVHTGNLGRP GM*NFPLLSIQN*MGDPHSAIS GGQCGSASWPSARIPLQQVREQ CRASWKKCVKARERLEL/CDE R/*SSRSHTEDCTEELFDF/LH A/RDHCVAHKLL*QLAFCTDPP TTSERAMPSQLEEMCKRPGSG
11300	41668	A	11368	1	2082	

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11301	41669	A	11369	1	2013	MKHLKRWWWSAGGGLLHLTL LSLAGLRVDLDLYLLPPPTLI QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLREVRLGVFPVPRTSV DAWLHVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGGCASEE NGVLREKHEAVDHSSQHEENE ERVSQKENSLOQNDDEENKI AEKPDWEAEKTTESRNEGISLG DIPLPGSISDGMNSSAHYHVNF QAIQDQVNLHEAILCPNNTFR RDPTARTSQSQEPFLQLNSHTT NPEQTLPGTNLTGFLSPVDNHM RNLTSQLLDLYLDINIFDEINLM SLATEDNFDPIDVSHLFDEPDS DSGLTLDSSHNTSDIKSNSSHS VCDEGAIGYCTDHESSSHDDL EGAVGGYYPEPSKLCHLDQSDS DFHGDLTFOHVFNHTYHLQP TAP*ESTSIEFPWP*GGRSQEG RE*DTLKDTRNLSRDEQRAK ALHIPFSVDEIVGMPVDSFNMS LSRYYLTDLQVSLIRDIRRGK NKVAAQNCRRKLDIILNLEDD VCNLQAKKETLKREQAQCNKA INIMKQKLHDLYHDFSRRLRDD QGRPVNPNHYALQCTHDGSILI VPKELVASGHKKETQKGRRK
11302	41670	A	11370	3	255	
11303	41671	A	11371	1	1611	
11304	41672	A	11372	109	207	MLCLQRFYMFVDFQSRPQF*L KSCQHHSCHQ
11305	41673	A	11373	1	666	
11306	41674	A	11374	1	1254	

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11307	41675	A	11375	33	1458	KLPLKAKMGKEKTHINIVVIGH VDSGKSTTTGHLIYKCGGIDKR TIEKFEKEAAEMGKGSFYAW VLDKLKAERERGITIDISLWKFE TSKYYYVTIIDAPGHRDFIKNMIT GTSQADCAVLIVAAAGVGEFEA GISKNGQTREHALLAYTLGVK QLIVGVNKMDSPEPPYSQKRYE EIVKEVSTYIKKIGYNPDIVAFV PISGWNGDNMLEPSANMPWFK GWKVTRKDGNASGTTLEALD CILPPTRPDKPLRLPLQDVYKI GGIGTVPVGRVETGVLKPGMIV VTFAPDNVTTEV*SVEMHHEA LSEALPGDN/VGA FNK NVS VK DVRRGNVAGDSKNDPPMEAA GFTAQVILNHPQISAGYAPV LDCHTAHIACKFAELKKKI DR RFQKKLED/GPKVFWKSGDAAI VDMVP/GKP/MCVESFSDY PPL GPFAVHDMRQTVAGGAHQKQ VDKKAAGA/GKVTKSAQKAQ
11308	41676	A	11376	1	880	
11309	41677	A	11377	1304	2340	KETEQRKRLRNEPEEQEIRT RKTRSPQTPDQQTYYKGRNER LCGISQPTKEPTRGGFCFRNPP SNRIFACWGKPAWTACCNLSR ARRMLMERNARAAGSRKRMG RMDCWARVLDINLAAEAKSEP EKKAGVKRICKRRCTGSSFDL DY*LFNGDYDRMYSYPARVP PPPIARAVVP/SKRQRVSGNTS RRGKSGFNSKSGQRGSSKSGKL KGDDLAQAIKE/ELTQIKRSGF LFLGKTWEKIEQSKQAVEM KK**SQKEEQSSQLR*KKDET*C *RLEVLKGA/EDSA/EGDLLD DDDNE DRGDDQLELIKDEKE/ AEEEEDDR/SA NGR/DDSLS

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11310	41678	A	11378	80	1141	ETQNRISSPSPCEIFLIFSIFRL CEKPYHQTRSASNVTKTDPRS MNSRVFIGNLTLVVKSDVE AIFSKYGKIVGCSVHKGFALSF SMLMKRNARA AVAGVEDGRMI AGQVL DINLAAEPK VNRGKAG VKRSAAEMYG/SQ*QNTLLRPL YFSSFDLDYDFQRDY YDRMY SYPARVPPPPPIARAVVP SKRQR VSGNTRRGKISGFNSKEWNSG VSSKFWKR*KGDDLQAIKEEL TQIKQKVD SLLENLEKIEKEQS KQAVEMKNDKSEEE\QSSSS\K KDETNLKMESEGGCRLTLP EE GDP\LD**YDE**RSGGNDPAGS *SKDDEKVEAEE\GEDDRD\ SAN GVEDDS
11311	41679	A	11379	1	1134	
11312	41680	A	11380	1	642	
11313	41681	A	11381	397	898	
11314	41682	A	11382	1	663	
11315	41683	A	11383	44	398	ATMLGLNIIRKWFYKSSEKSL GLRGGGLGRPLAFTLYSL LQAAL LCVNAIAVLHE/ERRISSKNICA GGTRTIGIGWIWEKEPGIKSQL MNLIRSVRTEM RVPLIIVNSIAI VLLLLFG
11316	41684	A	11384	3	754	GLYYRKCQLISKEDVTHDTRLF CLMLPPSTHLQVPI/GEHVYLKL PITGTEIVKPYTPVSGSLSEFKE PVL PNNKIYIFLIKIYPTGLFTPE LDRLQIGDFVS VSSPEGNFKISK FQEEDELFLLAAGTGFTPMVKI LNYALTDIPSLRKVKLMFFNKT EDDIIWRSQLEKLA FKDKRLDV EFVLSAPISEWNGKQGHISPA LL SEFWKRNL DKS KVLVCICGPVP FTEQGVRLLDJLNF SKNEIHSFT
11317	41685	A	11385	1	1785	
11318	41686	A	11386	95	369	
11319	41687	A	11387	511	728	
11320	41688	A	11388	1	100	
11321	41689	A	11389	1	777	

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11322	41690	A	11390	2	707	PNPKCR*VFPVFLFYRP1*FPFSS PA/SLIARPS*VPILPQPPLL/TPY NPPTTSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVNAHV FSLSDLSQISQHLGSFSSDPTKYI QEFRYLTLSYNLTWSDNLNVL T STLSPDERERVFPVSQSH/V**P/ SGFMSQTSRKALEQFPERIPQW NYQANS PGKNFKN*NLALKPH NRN*STLPSCTIHERKQPDGNA FLSYNYLPP
11323	41691	A	11391	2	339	LLLFRSLPAKLNQAPILWPWL/PP PPYNPSITSPVHTWFLSQFHSET SPPPPPAQQFPLRAVAGTEGIVR MNGKEFFLQPNLTLITAGFKSQ TSRKALEQFPERIPNGTIRIQIPQ
11324	41692	A	11392	1	993	
11325	41693	A	11393	3	1127	TKETRFHIGPKTPAPVTDWEGS LPLVFNHCRDASLIHSRFGKGV PHRDTCLGSPPLAASPAFLGKG QAAHCQAE LSPNSSASTPPPY NPSITSPPHTRSGLQFSSATSSSP PAQQFPLREVAGAEGIVRVHVP FSLSDLSQISQCLGSFSSDPTKY TQEFQCLTLSYNLTWSDNLNVL TSTLSPDEWERVSSLAQSHADN VPGFTSQTSRKALEQFPE/TDPQ WNHQANSPIARRDYMVSCLV EGLKKAA YKAVNYDKLKTETQ GEDENPAQVVARLAATLRFT ALDPEGPEGRILNMHFITQSAP DITKKLQKLESGPQTQOELINL TFKVHNNGEETDAARSPWKPP GPSRTPSFRACFCPHNFCGY
11326	41694	A	11394	1	312	
11327	41695	A	11395	1	244	MFADR*LFSTTHQSIVPLYL/LF GA*AGVLATALSLIRAE LGQP GNLLGNDHIYNVIVTAHAFVIF FIVPIIIGFGN*LVPLIIGAPDM AFPRINNISF*LLPSSL LLLASVA IVEAGAGTRLNKSYPPLAGNY SHPWKPPVDLTIFSLHLAGVSSI LGAINFITIINIKPPAITQYQTPL FV*STTHQSHRTTIPIYSAHELA SSPQPLSLIRAE LGQPGNLLGN DHIYNVIVTAHAFVIFFIPIIIG GFGN
11328	41696	A	11396	1	1287	
11329	41697	A	11397	3	583	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
11330	41698	A	11398	3	419	ILSISKLRSLTSLAGEGSDVTPKAS GVTRHIKGGPVAAEMSAFILPL PG*VSPGWEEAASAVNLGLRT TLALRRGVCLIRSRPGTLGLED GASPRTESLHTGTACKGAVDGS SEVDEKLKRIALDFGLHGGDD PRSSWH
11331	41699	B	11399	1	1242	
11332	41700	C	11400	504	755	
11333	41701	A	11401	155	710	ETETTGEREGSLSNHSPNPTAA GLSLDTMKSCHPCNHSSLLSTAA SPPKLWRCFKEEHVELAVLGAP PKPLLPPTSHRDPTASVYLKAP THVWWSLFKHPLS*TPCCMGFI AFAIVSVKSRDRKIGCERDPGI AYASTAK\CLNIWALILGLLHD HSGSSSPVLI\VPGLWDRSGGIT GGQELCP
11334	41702	A	11402	1	1158	
11335	41703	A	11403	80	996	LKGKFLSMGALDVLQMKEE DVLKFLAA\GTHLGGTNLDIFH MEQYIYKRKSDGIYIILMRTW EKLULLAARAIVAIENPADVSAI SSRNTGQRAVLKFAAATGATPI AGRFTPGFTTNHQAAREPRIL LVVTDPRADHQPLTEASYVNLPL TIALCNTDSPLRVVDIAIPCNNK GAHSVGLMWWMLAREVLRM RGTISRHPWEVMPDLYFYRDP EEIEKEEQAAAEKAVTKEEFGQ EWTAPAPEFTATQPEVADWSE GVQVPSVPIQQFPTEDWSAQPA TEDWSAAPTAAQATEWVGATTD WS
11336	41704	A	11404	1	819	
11337	41705	A	11405	1	1032	
11338	41706	B	11406	63	344	
11339	41707	A	11407	49	281	FFKSTVCSFQKQFQTLVPVIGGS IMY*DISDHRGQR**NVGPCGH
11340	41708	A	11408	985	1213	TQCVTINY*GMKWGSFGYVVFH KDGICALIDKRHFTFCVSFKGSQ IQSSAAFLIPDVQVHQRLQKDF QGLMVPIVGS
11341	41709	A	11409	1	774	
11342	41710	A	11410	3	249	
11343	41711	A	11411	3	619	
11344	41712	A	11412	3	493	

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11345	41713	A	11413	3	292	DALPRWPSPSGDGGAVREAGQ QGTRLERPAAVLIRAADPGRRRT QALA/GLPRG*PHPRMDPPESFQ ATGGTQQMTSTAPSWLTM*LR SVSGW*ELKD
11346	41714	B	11414	190	315	
11347	41715	A	11415	227	545	
11348	41716	A	11416	1	1896	
11349	41717	B	11417	52	1822	
11350	41718	A	11418	1	458	
11351	41719	C	11419	196	327	
11352	41720	A	11420	258	375	TRALSKFGSSRVEQS*AGYSGP GTP*EGSGILGETVC
11353	41721	A	11421	3	854	
11354	41722	A	11422	1	434	MTVSKNKCHTKGGKKGTEKK VVASFSKIYWYNVKAPAMFSIR NIGKALVIGHTGDFVSDGFKG GLIEIPDSIGKDKKACRSIYPLH DVFVRKVKMLKKPKFELGKLM ELHGEGRSSGKATGNESGA/KV E*ADGYGSPAQKSF
11355	41723	A	11423	1	642	
11356	41724	A	11424	260	534	
11357	41725	A	11425	1	438	
11358	41726	C	11426	391	750	
11359	41727	A	11427	786	926	AQGGQRQETIQGGRSLRSTLYL* GRSGTSLSQKLAQLSSLTGDST
11360	41728	A	11428	488	649	VLQQLKVAHPFLFIPPGGFVFSL TSGVKLHT*ALQLLKVAPELL IPPGSWSH
11361	41729	A	11429	1	2028	
11362	41730	A	11430	1022	1417	SLMGTTSSALGMHVPRAITRD VLSAPVIVSGNTAKFCTMLGHF LKKTRTERRDIQAP*SFISLPKS TWEKLSAAMVSTLR*GASDQ K/C*LLGGNDRVSLIVIQVEG/PL QDPGTLGRLLQSLTVKRISV
11363	41731	A	11431	1	535	
11364	41732	A	11432	3	1186	
11365	41733	A	11433	201	458	QVDGCIPELKV*F*KKRGRRRGR RGRRRRRRGRRRREGGGGGGG SFWRTHHTKPKDQHKDDTMG HFRSCAFQEGFVVHVPLLSSEK
11366	41734	A	11434	1392	1532	AQGGQRQETIQGGRSLRSTLYL* GRSGTSLSQKLAQLSSLTGDST
11367	41735	A	11435	1253	2820	
11368	41736	A	11436	1504	1718	VIGIWALALGILARPQGFHV HLQDVGGA*AAKGLLRNVV R**VDQVQVSGAQGIAGVVVT VGGEEDF
11369	41737	B	11437	1	1383	

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11370	41738	A	11438	3	310	VHGRASSLGVG/TPIPKGHGQIK P/DRLKPPVYGACKLLDMELEM AFFVGPGRNLGEP/IPISKAHEPI FGMVLMAWSARHIQKWEYV PLGPFLGKSFGTPVKSS
11371	41739	A	11439	1	1337	MSFIPVAEDSDFFPIHNLPGVFS TRGDPRPRIGVAIGDQILDLSIHK HLFTGPVLSKHQDVFNQPTLNS FMGLGQAAWKEARVFLQNLLS VSQARLRDDTELRRKCAFISQAS ATMHLPATIGDYTFYSSRQHA TNVGMFRDKENALMPNWLHL PVGYHGRASSVVSGTPIRRP GQMKPDDSKPPVYGACKLLDM ELEM AFFVGPGRNLGEP/IPISKA HEHIFGMVLMNDWSARDIQKW EYVPLGPFLGEEFWGHCLLPW VVPMDALMPFAVVPNPKQGRG PCRYLCHDEPYTFDINLSVNLK GEGMSQAATICKVQILKYMY WTMLQQAHSPTLSNGCNLRP GDLLGFLGPISGPGAQKNFGS MLELSWKGTKPIDLGNGQTVR KFLLDIGDEVITAMATRDFKW YS/QGQDGYRIGFGQ/CAGKVLP ALLPIMRFFLLF
11372	41740	B	11440	100	383	
11373	41741	A	11441	1	263	MEYYAAIKKDEFMSFVRIWMK LETIILSKLSQGQKTKHRRFSLI DG/IHHRSFTRTENSQRTRGRKC WN**PTCGLARSWFGKTWSGN
11374	41742	A	11442	2	160	
11375	41743	A	11443	150	308	CLHR*GRGSPRPGPGGSGTGA GPGAGPSLAPPLPAQNAEGLGG RRRGNKYL
11376	41744	A	11444	1	372	
11377	41745	A	11445	49	177	SQQGLYAKPTSSQAL*GDGQAS AEMGRILSYE*EHAVFGFSSL
11378	41746	B	11446	1	420	
11379	41747	C	11447	1	334	
11380	41748	C	11448	1	268	
11381	41749	C	11449	1	564	
11382	41750	A	11450	1	264	
11383	41751	A	11451	33	194	
11384	41752	C	11452	1	309	
11385	41753	A	11453	1	738	
11386	41754	A	11454	1	2028	

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11387	41755	A	11455	3	1008	LKDAVFSIRISPESQKLFQFQWE DPESGVTTQYTWLTQTQGFENS PTIFGEALARDLQKFPKDLGCI LLLYMDDLLGHSTAVRCAKG MDALLQHLEDGKYKVSKKKA QICRQVTKWGDWERFEWEPL QQQAFCKLKEKFMSAPALGLP DLTKPFTLYVSEREKTA VGVLI QTVGPWPTPVAYLSKQLDGVS KGWPPCLRALAATALLAQEAD KLTIVQNLNIKAPHAVGTSQA KPELIALTRALELSEGTWMKLE THLSKLSQGQK/DQTLHLVLTGIS RST*ACSCLASLQVGLTGSQSL SLENPLRVGIQRRRCFTCAVDG EGFLLGVMPA
11388	41756	A	11456	677	879	KRRNHQILIRSHLQSVEDNLK SGLGSTASL*MSWTQPRNGAE VGFLILGYIKETPRNAETPSMV
11389	41757	A	11457	1	624	
11390	41758	A	11458	3	130	VEEEQGHFSRNR*IIISW*RNEN GLDRMDCSCRNGERDKGHG
11391	41759	A	11459	1	1477	MADPPWSSVQVKNKYDSGLSS VSAEPLASSASSHPGMSDNAPA SLESGSSSTPTNCSTSSAIPQPGA ATKPWRSKSLSVKHSATVSM SVKPPGPEAPRPTPEAMKPA NQKSMLEKLLFNSKGGSKAG EGPGSRDTSCERLETLPSEFESE ELEAASRMLTTVGPASSSPKIAL KGIAQRTFSRALTNKKSSSLKGN EKEKEKQQREKDKEKSKDLAK RASVTERLDLKEEPKEDPSGAA VPMPKKSSKIASFIPKGGKLN AKKEPMAPSHSGIPKPGMKSM GKSPAPAPSKEGERSRSGKLSS GLPQQKQQLDGRHSSSSSLASS EGKGGPGGTTNLNHSISSTVSGS VGTITQTGNTSVVQLPQPQQQ YNHPNTATVAPF*EGFHL*HA *VITF*TANYASSDNDLNVGYT H*LTASEFFQSRLLSLEAVGLH AHTC*A*LGSNIPFSVRLRPVPA ASAEDLRGHQGLIKDRAQVS
11392	41760	A	11460	1	327	LLLMLGLKHNVKLPRGPMVTL RESVWETLNFLK*SFV*LNMLIF KKSS*RLQ*VRFHFLCPRVLIVQ LPFMSENMRCLVFCSCVSLLRM MVSSFIHVPPFKVLSFFALG
11393	41761	B	11461	119	203	
11394	41762	B	11462	1	677	

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11395	41763	A	11463	2	74	
11396	41764	A	11464	1	1256	MSASQDSRSRDNGPDGMEPEC VIESNWNEIVDSFDDMNLS ESL LRDIYAYGFEPKSAIQQA ILPC IRGVNVIQARSQTKMATFA I SILQQIELDLKATQALVLA PTRE LAQQIQKVVMALVDYMGAS C HACVVRGTNMRAEVQKLQME A PHIIVGTSPRVFDMRYR YRLAP KSIRMLVLNEADEMLSRG FKG QIYDISKRLNSTTKVVL LSAT MPFDVLEVTKKFMRGPH /IRIL VKKEELPLEGIRHFYIN VEPEEF NLDTLCDWYEP*PITQAV IFHQ PPGGKVDW/LSPEKMHARD ST VPPMHGDMTKKERD VIMREF RSGS*PEF*ITPLTPGQ RPLMC QPGFL*SFKLMTLPPPT RGKLLI HRNRSRVDRFGKGV AINMVT EEDAKRTLARDIETFY NTSIEEMP
11397	41765	A	11465	1	402	KSRGRGLPYTMDAFMLG MGM LKYPNFVAT*ARGYPGFAP SYG YQFPGFPAAYGPVAAAA VAA ARGSGSNPARPGFPGAN SPGP VADLYGPASQDSGVGN YISAAS PQPGSGFR/HTGIAGPL IATAFT NGYH
11398	41766	A	11466	226	486	
11399	41767	A	11467	2	432	
11400	41768	A	11468	1	834	
11401	41769	A	11469	205	570	
11402	41770	B	11470	61	939	
11403	41771	A	11471	96	269	
11404	41772	A	11472	123	593	VAVLEARLLSPVRASKMT KKR RNNGRAKKGRGHVQPIR CTNC ARCVPKDKA\KKFVIRN IVEAA A\VRDISEASVFDAYV LPLKIYV KLHYCVSCAIHSNVVME SISVK ARKDARTPPFRPPGGC WPHVP PPKPNVRELEFFKDLK DRLISS WEEK
11405	41773	A	11473	1	228	
11406	41774	C	11474	187	423	
11407	41775	A	11475	1	546	
11408	41776	A	11476	1	1254	
11409	41777	A	11477	1	1386	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
11410	41778	A	11478	1	1445	HLKAKMGKEKTHINIVVIGHVD SGKSTTTGHLIYKCGGIDKRTIE KFEKEAAEMGKGSFKYAWVL DKLKAERERGITIDISLWKFETS KYYVTIIDAPGHRDFIKNMITGT SQADCAVLIVAAGVGEFEAGIS KNGQTRHALLAYTLGVKQLI VGVNKMDSTEPPYSQKRYEEIV KEVSTYIKKIGYNPDTVAFVPI GWNGDNMLEPSANMPWFKGW KVTRKDGNASGITLLEALDCIL PPTRPTDKPLAALPLQGVHKL GIGTVSSAPMETGFSNPGMVV TFAPSPR*QRKVKSVEVMHHEA LINEALSGEQGLSMSKKVSVK ECFVRGNVAG*PAKNDPTQWE ASWLSLLQVILEPSQAQISAGL CPLYWDCVHTGSHLHAKFAELK EKIDRRSGKKV\EDGPKIL/RS LGDAAIVDMV\PG/RPMC VESFS DYPPLGRFAVRDMRQTVAVGV IKAVDKKAAGAGKVTKSAQK
11411	41779	A	11479	1	996	

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11412	41780	A	11480	1	1875	MPSDLAKKKAACKKEAAKAR QRPKKGHEENGDVVTEPQVAE KNEANGRETTEVDLLTKELEDF EMKKAARAVTGV LASHPNST DVHIINLSLTFHGQELLSDTKLE LNSGRRYGLIGLNGIGKSMLLS AIGKREVPPEHIDIYHLTREMPP PSDKTPLHCVMEVDTERAMLE KEAERLAHEDAEEKLMELYE RLEELDADKAEMRASRIHLGLG FTPAMQRKKLKDFSGGWRMR VALARALFIRPFMLLLDEPTNH LDLDACVWLEELKTFKRILVL VSHSQDFLNGVCTNIHMHNNKK LKYYTGNYDQYVKTRLELEEN QMKRFHWEQDQIAHMKNYIAR FGHGSAKLARQAQSKEKTLQK MMASGLTERVVSDDKTLFSYFPP CGKIPPPVIMVQNVVSFKYTKDG PCIYNNLEFGDLDTRVALVGP NGAGKSTLLKLLTGELLPTDG MIRKSHSVKIGRYHQHLEQEL DLDSLPLEYMMMKCYPEIKEKEE MRKIIGRYGLTGKQVSPINRL SDGQKCRVCLAWLA WQNPHM LFLDEPTNHLDIETIDALADAIN EFEGGMMLVSHDFRLIQQVAQ EIWVCEKQTITK WPGDILAYK EHLKSKLVD/EEPQLTKELPTTC
11413	41781	A	11481	194	418	YGLASVSPTQISSSSCNPWME GGTLVGGDWIGSHDSEGVLTR SGCLISVWHFSCAVSPATL*RRCL LLLLRLPP
11414	41782	A	11482	1	675	
11415	41783	A	11483	1	1125	
11416	41784	A	11484	1	711	
11417	41785	A	11485	673	796	
11418	41786	A	11486	3	570	RLQEFGRNRHLPVNSPKLTNT KGKRRGTRYMF/SRPFKKGHV VPLATYMRIYKKGDIVDIKGM GTVQKGMPHKCYHGKTRGVY N/VTQHA/VMGIVVYKQA*GQR FLPKRI*CCVIEH\KHS/KSRDSF \LKRVKENDQKKKEAKEKGT WVQL\NRQLAPPREAHFVRTN GKEPGACWNPIPEYFHHNR
11419	41787	A	11487	1	2091	
11420	41788	A	11488	1	2208	
11421	41789	A	11489	430	1032	

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11422	41790	A	11490	3	1158	EDQIDRLDFIRNQMNLLTL.DVK KKIKVETEEVANKVSCAMTDEI CRLSVLVDFECSEFHPNPDVLKI YKSELNKHIEDGMGRNLADRC TDEVNALVLQTQQEIIENLKPLL PAGIQDKLHTLIPCKKFDLSYNL NYHKLCSDQEDIVFRFSLGWS SLVHRFLGPRNAQRVLLGLSEPI FQLPRSLASTPTAPTTPATPDNA SQEELMITLVTLASVTSRTISM GIIIVGGVIWKTIGWKLLSVSLT MYGALYLYERLSWTHAKERA FKQQFVNYATEKLRMIVSSTSA NCSHQVKQIATTFARLCQQV DITQKQLEEEIARLPKEIDQLEKI QNNSKLLRNKAVQLENELENF TKQFLPSSNEGSVTIEIALVTLLG GNNRL
11423	41791	A	11491	132	381	SKAESVFPPTLPRQRPAAAAGP HWGAG*GQDEAGLHPGPEDRG FLRETPADPGLQAGLGQVHPPR SRADPPAPYQVPPRMGT
11424	41792	B	11492	129	470	

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11425	41793	A	11493	1	1955	FVSCQAPWSHPPAQLSPVGADA MTLTLVSLICGLSVGPRTCVQ AGTLPKPTLWAEPA SVIARGKP VTLWCQGPLETEEYRLDKGLP WARKRQNPLEPGAKAKFHIPST VYDSAGRYRCY YETPAGWSEP SDPLELVATGFY AEP TLLALPSP VVASGGNVTLCQD TLDGLLTF VLVEEEQKLPRTLYSQKLPKGP SQALFPVGPVTPSCRWRFRCCY YYRKNPQVWSNPSDLEILVPG VSRKPSLLIPQGSVVARGSLTL QCRSDVGYDIFVLYKEGEHDL VQSGGQPPQAGLSQANFTLGP VSRSHGGQYRCYGAHNLSPRW SAPSDPLDILIAGLIPDIPALSVQ PGPKVASGENVTLLCQSWHQID TFFLTKEGAHPPCLCLKSKYQS YRHQAEFSMSPVTS AQGGTYR CYSAIRSYPYLLSSPYQELVV SGPSGDPSLSPGTSTPTPGPEDQ PLTPTGLDPQSGLGRHLGVVVG VSVAFVLLLFLLFLLLRRHQ SKHRTSAHFYRPAGAAGPEPKD QGLQKRASPVADIQEILNAAV KDTQPKDGVEMDARAAASEAP IQDVTY AQLHSLTLRREATEPPP SQEREPPAEP SIYAPLAIHLAHG GPRSHTQQKETQRLQKARELPP VDTNEPQPAWDP

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11426	41794	A	11494	22	1991	GLIPLQSAQSPEGDAMTPALTA LLCLGLSLGPRTRVQAGFPKPK TLWAEPGSVISWGSPTIWCQG SLEAEQYQLDKEGSPEPLDRNN PLEPKNKARFSIPSMTHHAGR YRCHYYSSAGWSEPSDLELV MTGAYSKPTLSALPSPVVASGG NMTLRCGSQKRYVHFVLMKEG EHQLPRTLDSQQLHSGGFQALF PVGPNPSHRWRFTCYYYMN TPRVWSHPSDLEILPSGVSRKP SLLTLQGPVLAPGQSLTLQCGS DVGYDRFVLYKEGERDFLQRP GQQPQAGLSQANFTLGPVSPSN GGQYRCYGAHNLSEWSAPSD PLNILMAGQIYDTVSLSAQPGP TVASGENVTLLCQSWWQFDTF LLTKEGAHPPPLRLRSMYGAH KYQAEFPMSPV TSAHAGTYRC YGRSSNPVLLSHPSPELLEVV GHS GGSSLPPTGPPSTPGLGRYL EVLIGVSAFVLLFLLLFLLR RQRHSHKIRTSGLRLCPSSPRPE K'AD FQRPAGAAETEPKDRGLL RRSSPAADVQEENLYAAVKDT QSEDGVEIYTRQSPHDEDPQAV TYAEVKHSRPRREMA SPSPLS GEFLDTKDRQAEDRQMDTEA AASEAPQDVTYAQLHSLTLRRE ATEPPSPQEGSPAVPSIYATLAI
11427	41795	A	11495	1	1818	
11428	41796	A	11496	3	574	IRCSSVDPRVRPRVRGASGAAA YCCRHVSI PRDHTTHNQSRKW HRNGIKKPRSQRYESLKGVDPK FLRNNRFAKKHNTKGLKKMQ ANNIAKAMSARAEAIKALVKP KEVKPKIPKGGQPINLIRLAYIA HPKLGKRARARIKGLKLCRP KAKAKAKAKADQTKAQAA APASVPAQAPKRTQAPTKASE
11429	41797	B	11497	45	331	
11430	41798	A	11498	1	1779	
11431	41799	A	11499	1	837	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
11432	41800	A	11500	3	557	ERGYSFTTTAERDIVRDIKEKLC YVALDFEQEMATAASSSLEES YELPDGQVITIGNERFRCPEAL FQPSFLGMESCGIHETTFSIM KICDVIDIRKDLYANTVLSGGTT MYPGFADRMQKEITALAPSTM KIKIAPPKYSVWIGGSILAS LSTFQQMWISKQEYDIESGPSI VHRKCF
11433	41801	A	11501	1	1188	
11434	41802	A	11502	1	684	
11435	41803	A	11503	1	1398	
11436	41804	A	11504	22	1239	
11437	41805	A	11505	837	971	
11438	41806	C	11506	1	3018	
11439	41807	A	11507	23	368	
11440	41808	A	11508	1	816	
11441	41809	A	11509	1	441	
11442	41810	A	11510	195	293	IKVSPSGRDPVRDN*ITW*FLPY CSSTTGSLH
11443	41811	A	11511	56	372	MELPASPALFARTPQPLGGRW DWAPWSRGWRSSRRLLGPHRSP RRGSEAQA WRAAGPEPCPAGR QLRPVNIEWLFALILTHFTGTFQ VLA*TSQALI*NPRVLYPD
11444	41812	B	11512	108	326	
11445	41813	A	11513	3	326	GSKKKFH*HSRILERSRWRSTS YQGRPQPSWLHPVDPHRGCR WSCLPVPCRAPSTPQPLGGRWD WAPWSRGRRLSGRLGPHRSPR NRGRLRHGGLQVPSRASQEGS
11446	41814	A	11514	3	619	VRDIHGSPTHHRPGGLRGKNGF VGEARDPRYRSGHCFRECRTO ALVAFT*C*SCGFTEVK*GLSC LPAGQGSGPAARHV*ASHPLHG LPCGSLP/NRAPPTPRPVPT TQGLRNASARRGTGRQLHLQP WCGIH*VKPAGLLSLLHGQAC GDPATPSRERLSQPAVPTALGS RRRLLGAGSPGSSLPSPQPP GGRRRPP
11447	41815	B	11515	1	1524	
11448	41816	A	11516	1	1365	
11449	41817	B	11517	1	654	
11450	41818	B	11518	1	795	

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11451	41819	A	11519	486	929	QKQEEWPEDTYPRALAAFPGRARDLQAPMEPPITLSMGSCAPEPPRGAPPAPRRRIPSTTQGLRSSGAGRRTCRQLHLQPRCRIHWVKPAGLLSLWLFQMHSASCVVNYHSGAWRMVALFSWLH*ECPSGESGAPILHFFPALP
11452	41820	A	11520	35	473	VLQLLRHHVWSCSFPPGVVVSLLALAVKLQTFVTQEPSWLHPVD PAPGLQVELPASPLQCTRTSQPLGGRWDWAPWSRGRSSSRLGP HRSPPWRG*EAQAWRAAGPEP/ WPRGKA/C*GPARNRAKRRFP HCTF*EEVTVCSPPKRGDD
11453	41821	A	11521	23	229	RSWNPTLFGVMYNATAAWKPI*QFLKKNMKNLP*DPGREPLNQTG*KGKRGQEAFLKGISSRMSQ
11454	41822	B	11522	152	901	
11455	41823	A	11523	1	3063	
11456	41824	A	11524	242	263	VLQLIKAVWTQRTQEPSWLHPVDPALGLQVELPASPACTPQPLGPLPLPGLPLWRHLRSPSVH HCTVGAPFWAGQGRSPLPQRRCALFLAGP
11457	41825	A	11525	1584	2082	QRAGSPHSRSLSPVPLPGLPLWRHLRSPSAHRCTMGAPFWAGQGHSLRLPQLAGRRGGGASGNRCVQRLQASWSSRWAWAWRA PHSEQPAGPAGPQQ*GTWHPGQRLQRMYYWVLQCCRLTGAVLDFSPGLSCLPAGQGSGPAARHA*AFHPLHGLLCGRSLPD
11458	41826	A	11526	1293	1558	CIQHCHHCCCYRCRASAAGAA SLQGSTHYRIQHCTPCPVLLTPSVRLRDVCTRSIWPLVVTGLPS AMNVSSWCSTSSPAFGVLVLWI
11459	41827	B	11527	179	1031	
11460	41828	A	11529	1	342	
11461	41829	A	11530	1	3081	
11462	41830	A	11531	1	371	
11463	41831	A	11532	1	501	
11464	41832	A	11533	1	836	
11465	41833	A	11534	88	573	
11466	41834	A	11535	1	675	
11467	41835	A	11536	1239	1556	FLSLPTFLFVIFSGEEELLVLALVFLSLFFFFFLRWSFAVVAQAVVQWHNLSLSPFGFKQFSCLSLSPSSWDYRCPPPRPANFCIFTRDGVSPCCPGWSRTSLDLR

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11468	41836	A	11537	2	375	ASIEIDSLYEGIDFYTSITRARFE ELNADLFRGTIDPVEKALRDA KLDKSIQHIDIVLVGGSTRIPKIQ KLLQDFYEAAYGA AVQAAIL SGDKSIENVQDLLSDVTPFP LGIE TAGGVMTVPH
11469	41837	A	11538	2	295	NRMGNHFAEFKRKHKKDISEN KRAVRRLRTACERAKRTL/SSST QASIEIDSLYEGIDFYTSITRAPF EELNAWGISWWWLPPVPVGAS SGPTIEEVD
11470	41838	A	11539	1	1659	
11471	41839	A	11540	1	810	AGKPHCGGEFCTPNVHHFFR*F *ANPKRTII/ENKEALTPPTV/C* RAKPTLSSAPRAVI/EIDSS*E/GI GLYTSITPPRFEELNADLFLAPL TPVEKALRNAKLDKSIQHIDIVL VGGSTRIPKIQSFLQDFFNGKE LNKSINPDEAVAYGA AVQAAIL SGDKSIENVQDLLSDVTPSLG IETAGGVMTVLIKRNTTPTKQT QTFTTYSIDNQPGVLIQVYEGER AMTKDNNLLGKFELTGMPPGG MPGGFPGGAPPSGGASSGPTI EEVD
11472	41840	B	11541	848	2399	
11473	41841	A	11542	1	876	
11474	41842	A	11543	16	1203	SIPHEPWPVSLLLFQEQVPGKK ELRKGLALLEAIISICGSLDKVL KEKRKLFHSMGEGTINGLLDE LLQTRVLNQEMEKKVRENAT VMDKTRALIDSVIPKGAQACQI CITYICEEDSYLAETLGLSADQT SGNYLNMQDSQGVLSFPAPQ AVQDNPA MPTSSGSEGNVKLC SLEEAAQRIWEQKSAEIVPIMDK SSRTRVALIICNEEFDSIPRTG AEVDITGMTMLLQNLGYSVDV KKNLTA SMDTELEAFHRPE HKTS DSTFLVFM SHGIREGICG KKHSEQVPDILQLNAIFNMLNT KNCPSLKD KPKV IIIQACRGDSP GVVWFKDSVGVSGNLSLPTTE EFEDDAIKKAHIEKDFIACSSST PDNVSWRHPTMGSVFGRGLIEH
11475	41843	A	11544	2	654	
11476	41844	A	11545	3	291	LIPPLLRPLVQSGGIPMGKFMK PGKVVLVLAGRYSGRKA VIVIR YSVDIPLDKTVVNKDVFRDPAL KRKARREAKVKFEERYKTGKN KWFFQKLRF

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11477	41845	A	11546	157	386	
11478	41846	A	11547	2	531	FWQESASGHLWLSGFLSGPFSLSAEMGKFMKPGKVVLVLAGRYSGRKAVIVKNIDDGTSRPPYS HALVAGIDRYPRKVTAAMGKK KIAKRSKIKSFVKVYNNHLMPTRYSDIPLDKTVVKNKGFTDPALKRNARMEAKVKFEERYK TGKNKWWFFQKLRVLDAFVLII KNYKE
11479	41847	A	11548	1	414	LGGKGTWGETKPAMAAAEEDGGPEGNRERGGAGATKTLITYGNHLFSPQWLETRPERQECPVCKAGISREKVVGEKSLTFSLHFLRLKTPQICRLPV*LFLPP*GFQPFQDGGFHFSFGVGAFFPGFFNPSY
11480	41848	A	11549	1	654	
11481	41849	A	11550	3	663	RQGEVVSGLLGRVYVYLGGKGTWGETKPAMASAEESGAPNVPNRERGGAGRPKTPFECNICLETAREAVSVCGHLYCWPCLEH QWLETRPERQECVPCKAGISREKVVPLYGRGS/QRSPQDPRIKNSPRPPGGRGPAPE/SRGGSQPF GDTGGFHFSFGVGAFFPGFFTT VFNAHEPFRRGTGVDLG/QGHPSLQLGKEFLPGFSAIFFLFWL
11482	41850	A	11551	3	369	
11483	41851	A	11552	375	851	
11484	41852	A	11553	1	927	
11485	41853	A	11554	104	845	

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11486	41854	A	11555	200	1496	ETIQAVVFMSLHFLYYCSEPTL DVKIAFCQGFQDKQVDVSYIAKH YNMSKSKVDNQFYSEVGDST FTVLKRYQNLKPIGSGAQGIVC AAYDAVLDRNVAIKKLSRPFQ NQTHAKRAYRELVLKMCVNH KNIISLLNVFTPQKTLLEFQDQVY LVMELMDANLCQVIQMELEHE RMSYLLYQMLCGIKHLHSAGII HRDLKPSNIVKSDCTLKILDF GLARTAGTSFMMTPYVVTYY RAPEVILGMGYKENVDIWSVG CIMGEMVRHKILFGRDYIDQW NKVIEQLGTPCEFMKKLQPTV RNYVENRPKYAGLTFPKLFPS LFPADSEHNKLKASQARDLLSK MLVIDPAKRISVDDALQHPYIN VWYDPAEVEAPPQYDKQLD EREHTIEEWKELIYKEVMDSVEE KT*KWC*LKGQSPSAQVQQ
11487	41855	B	11556	56	1564	
11488	41856	A	11557	1	970	
11489	41857	A	11558	1	903	
11490	41858	A	11559	237	479	PVGTNTECEIPFQPMETGHSSR VDASGYK*PCLLCVSYSRGKTA GECTLF*VHHFLSSLCPVNLGA NNQLHYIPWFSTDG
11491	41859	A	11560	1	477	
11492	41860	A	11561	125	1133	
11493	41861	A	11562	1	837	
11494	41862	A	11563	2	708	CQHYKFRYHQGGEGQEEPPLN PHGAARAAYVLRKCTFDMFNF LASQHRVLPEGATCDEEEDVQ LRSTRATSLELPMAMRFRHLK KTSKEAVGVYRSIAHGRGLFCK RNIDAGEMVIEYSGVIRSVLTD MRKKFYDGKIGICYMFSMDD FDVVDATMHGNAARFINHSCE PNCFSGVIPGGGPNKIVIFGLR RILGGEEVNLRTKKFPIEDAKIN KLPCNCGAKRCRRFLN
11495	41863	A	11564	2	136	
11496	41864	A	11565	1	551	AILYAKRASVFKLQKPNAAIR DCDRAIEINPDSAQPYKWRGKA H/RAQKIAEHRKRYERKREEREI KERIERVKKAREEHERAQREEE ARRQSGAQYGSFPGGFPFGMP GNFPGGIPMGGGMPMGAGM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQNANMSKYQSNPK VMNLISKLSAKK

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11497	41865	A	11566	1	804	
11498	41866	A	11567	64	1215	PPSFAIHLPTMDPRKVNELRAF VKMCKQDPSVLYTEEMRFLRE WVESIGGKVPPATQKAISEENT KEEKPDSSKVEEDLKADEPSSE ESDLEIDKEGVIEPDTDAPQEM GDENAEITEEMMDQANDKKVA AIEALNDGELQKAIDLFTDAIKL NPRLAILYAKRASVFKLQKPN AAIRDCDRAIEINPDSAQPYKW RGKAHRL/LGHWEAAHDLAL ACKLDYDESDASAMLKEVQFRA QKIAEHRKRYERKREEREIKERI ERVKKAREEHERAQRE/EEARR QSGAQQYGSFPGGFLGGMPGN FPGGMPGMGGGMPGMGMGM PGLNEILSDPEVLAAMQDPEVM VAFQDVAQNPAINMSKYQSNP KVMNLIJSKLSAKFGGQA
11499	41867	A	11568	1	265	VKAKIQDKEGIPPDQQRILFAG KQLEDGRTLSDYNIQKESTLHL VLRLRGGIIEPSLRQLAQKYN DKMICR/KCCGHTNNLRPKKK
11500	41868	A	11569	3	318	
11501	41869	A	11570	7	57	RFFNFLGGIP/P*SGPKGMTL/DQ TQGSKSKQIQWPALTFFKPLVER NIPSSVTAVEFLVDKQLDLFTE DSAFQPYQVRNFRLLFKIKG*L NFIDIQTFFKQYSLNISSNF*LC EKPNECSQLILLIG*TVY*FFNFL GGIPLNLGQKE
11502	41870	A	11571	1	2109	
11503	41871	A	11572	50	251	
11504	41872	A	11573	1	1922	
11505	41873	A	11574	2	479	
11506	41874	A	11575	1	909	LILTSVLLFQRHGYCTLGEAFN RLDFSSAIQDIRTFNYVVKLLQL IAKSQLTSLSGVAQKNFYNILD KIVQKVLDDHNPRLIKDLLQD LSSTLCILIRGVGKSVLVGNINI WICRLETILAWQQQLQDLQMT KQVNNGLTSLPLHMLTNILY RFSDBGWDITLGQVTP/TLYML SEDRQLWKKLCQYHFAEKQFC RHILSEKGHIEWEVGCNFATF RKHYPAKEQYGRQHCIFCRHCS ILFWKDSGHP/CTAADPDSCTFP VSSQQFIALFQVLRAPCHPY WRFVNPAPVACGLIVSVL
11507	41875	A	11576	1	1035	

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11508	41876	A	11577	63	606	FAKNERTQRGKRRG\TRYMFSSR PFRR\HGVPV\PGPHICRIYRK DIVDTQGGVLFKKGMPHKCY PWPKEGVQLLPQHA\VAIVV NQPVLGQSFFPRE*IVRIEHIKH SKSPR*ASLK/RVLKENDSEKER SPNEKGTWGSNLKRHLAPPQK KHTL*RTNGKEPEL\LEPIPYEFH GHNRC
11509	41877	A	11578	1	490	
11510	41878	A	11579	150	536	NCKISFLHFCYIFVKALKRISAL SRGKILAKRINVRIEHIKHSKSR DSFLKRVKENDQKKKEAKEKG TWVQLKR/QGKNLVYISLVLA L*G*DLTHHII\FPFFFL**PAPP REAHFVRTNGKEPELL
11511	41879	A	11580	336	476	GMGTVQKGMPHKCYHGKTGR VYNVTQHAGIVVVKQVK*VV LCG
11512	41880	A	11581	1	626	WAFRPEPPSSSKFAQNDGPQRG KRRGTRYMFSSRP*ENHGVVP LAHFMRVYKKGDI\VRHPRGM GYCSKKGMPPTSCYPWQKLGR VYNVTPAMLFIVCKQTKLKG NDSLPRG/ILMWRI*AHLRHF*G ARD/RASLKTGRENGSRKKER KPKGGKVTWGFQLKRRHLGFP PQEEATFLLEPIGGREP*ACLE PYFPYWISWGINRC
11513	41881	A	11582	499	723	
11514	41882	A	11583	96	411	PAPTSRRCRRRAPLPPKKKAEGD AKGNKAKVKDEPQRRSARLSA KPAPPKPEPKKAPAKKGEKV PKGKKGKAD\AGKEGE*PLQKN GDAKTDQAQKA\EGAGDAK
11515	41883	A	11584	3	493	
11516	41884	A	11585	588	759	GEGCGWAEVGRCRPGPPDPAG PAGAAGP/GAARGGLFRGVLS SSRCGGGSSSSRSGR
11517	41885	A	11586	213	626	
11518	41886	A	11587	1	645	
11519	41887	A	11588	1	739	
11520	41888	A	11589	327	676	NPNPSWNLAHVWMDRK*EQ RGIQ/V**SNINKS*KEKMSMQC LEMPRNPDI*GRIDVSFQNLMR LTR*SQMGYLPWDLKQELTF KLS*KQVMLS\VVVTFVRNMLQ LRFLTSFSG
11521	41889	A	11590	11	328	

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11522	41890	A	11591	1	378	LFIVTVCPAFLRFSSAICDSFLIC PQVGCGVRRVLLVTGVLLSIS LDMAATGVSLGSSWSLFLGIW LMIRFQVS*WYPNWLILSWRN ISITSTPSYYFTYFPTFCYQISPPN QLFCFLCSWFL
11523	41891	A	11592	1	780	
11524	41892	A	11593	1	1461	MVTLMGHAALCLHYVMQLGT TGGAWYFPRASSQAREMPQCP TLESQEGENSEEEKGDSSKEDPK ETVALAFVRENPGAQNGLQNA QQQGGKKRKKKRJIISGKVLED FLALAMHFADEETGQKRCSLN QTIQLLITPDGTGSIWHQAFSSIV RRAAQQYGFREGGEDDDWTL YWTDYSVSLERVMEMKSYQKI NHFPGMSEICRDLARNMSR MLKMFPKDFRFPRTWCLPADP AQLDLWSQTFWPRPTAPDGT GADGLGLRLGSLGK/VSFWFPA CHGLG*PEASYYTAS/MACGSLP/ WKLSTFSAYLEDHSYVNEQIW RDIEDVVIKTLISAHPIRHNHYHT CFPNHTLNSACFEILGF DILLDH KLKPPWLLTEKMQTAGALFISP ALPSYSNFPLOVARREFQTSVV SRDIDTAAKFIGAGAATVGVAG SRAGIGTVFGSLIIGYARNPSLK QQLFSYAILGFALSEAMGLFCL MVAFLILFAM
11525	41893	A	11594	1	2301	
11526	41894	A	11595	3	381	
11527	41895	A	11596	1	729	
11528	41896	A	11597	1	1006	MVKVKARVNEFGYTGCGLVTRA AFNSGKVDIVAINDPFDLNYLA YMLQYDSTHGKFGHTIKAENG KL VINGNPITIQE*DPTKIKWG DAGTEYVVESTSIFTAMEKVGA HLQRGAKRVMIFAPSTEAIMFM MKVNYEKYDNSLKIISNASCTT NCLAPLAKVIHDSNGIVERLMI TVHVITTTQKTVDGPCRKLRPD GHRALQNIIPASTSTAKAMVKV IPELNKKLTGMASHVPTAKVLV VDPTCHL/EKPAKYDIDKMM KQASEDPKIGILGYTEHQIVSSD FNSDTQSTFDAGAGITLNDHF VKLISWYDNEFGYSNRVVDLM AHMASKE
11529	41897	A	11598	3	508	
11530	41898	B	11599	1	5068	

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11531	41899	A	11600	58	659	PVATTCECIFIHLGEADVWIGN AA/WELYLYLEQSIQHDSMPMSD KTTG*GDN*FYASS/GAGKFVS RAVFINLEPIVTDEVCTGTYHQ LFHPEQLITDKEDAAHNYAWG HHDIGKIIGCYSTNKTCTIQQFV DWCFTSLKVGINCQLPTVVPAG NLANIKRAACMLSNITIAIAEAW VCLGHKSDLSYANCSFVHQFFN KSIH
11532	41900	A	11601	511	1173	
11533	41901	A	11602	3	497	WCDGPQNRYALICQQC/YSHNG MALKEEFYIAFRCA YCFFLNP ARKTRPQAPRLPEFSFEKRQVV EGSSSVGPLPSGVLSSDNQFNE ESLEHDVLDNDTEQTDKIPAT EQTNQVIEKASDSEEPKQET ENEEASVIETNSTVPGADSI PDP ELSGESLTAE
11534	41902	A	11603	2	764	
11535	41903	A	11604	1	444	
11536	41904	B	11605	44	1748	
11537	41905	B	11606	1	1134	
11538	41906	A	11607	1	549	
11539	41907	A	11608	212	548	
11540	41908	A	11609	1	905	ESVAAAARAFPTAPKELERQQ RRRFRFHHLFLPSLRTPCRVS SLQPWLWKATEVMAMFEQMR ANVGKLLKGIDRYNPENLATLE R/YVETQAKENAYDLEPNLAV LKLYQFNPAFFQTITVTAQILLK ALTNLPHTDFTLCKMIDQATI QERNGPIDQIFVPSGTLLEDPA HFGPFWQTPGNGRACQKAWD ENHWLFGKVLTFG*RLLVVK FIC/HVVGYHLP SHIDR/WLLAE MLGD/SDKPAKRCWMSKIRLR EDDRRQGFUCS/QE*EHLNPRN/ IVEKIDFDSVSSIMASSQ
11541	41909	A	11610	186	209	QLWPN*LLSRNKEATLRYSQLP TCHSICY*MPAF*HTISDLSFNK NINCKSYHLRVFYKYV*IVCHF *VPKYVWTKYYQTSCT*WR* SGVE*PPIISSSSACCLLRRLPT EGTCPEIFWNPRLGISAECRDSC GPTSF
11542	41910	A	11611	2	2948	
11543	41911	B	11612	1	999	
11544	41912	A	11613	1	657	
11545	41913	A	11614	1	707	
11546	41914	A	11615	1	297	

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11547	41915	A	11616	1	1287	
11548	41916	A	11617	242	540	LTNEKKVQDQMDSQPNSTRGT RRSLYPFLLLKLFQLEKEGILPNS FYEASIIIPKPGRDITTTKKEF* TNIPDEHRCKNPQ*NTSKPNPA AHPKAYPP
11549	41917	A	11618	193	916	
11550	41918	A	11619	1	2169	
11551	41919	A	11620	1	615	
11552	41920	A	11621	39	568	NSAWARRPLVLPMLSLVSPWK SSQHFIRVLNPPNLDGRRKNNSP LPITCHLRVWARRYAHVVLRLK ADVIDLT/RAGEL/TEDEVERVI TILQINPRQYKIPD/WFLNRQKD VKDGKYSQVLANGLDNKLRED LIERLKEDSAPIEGLRHFWGLR/ VRGQHTQDQLGRRGRHRGAS GARR
11553	41921	A	11622	1	378	
11554	41922	A	11623	1	222	
11555	41923	A	11624	2	367	
11556	41924	A	11625	2	376	QTYSLRRATPRHIVGFTKVM KEKVLRAA/NKPIRLTVDLAET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFDTKQML KDFVTTTRPALQELLKEALNME RNNQYQPLQKHAKW
11557	41925	A	11626	1	633	
11558	41926	A	11627	164	714	IGVNRHLIQESPSWNLGAPLE QIFQRKEQAIFAILQPLLVISRQ TGSGVDPQQTPADLQK/SGSDS REQNKTENEFDELTEIGCRRWV ITNSSLKEHVVTQCKEAKNLE KMLQELLTRITSLEKNINDLME LKNTAQELREAYTHINSQTDQA EERISEIEDQLNEIKGEDNIREKT VKRNE
11559	41927	A	11628	504	936	TESSSININKDDHAKTP/PKDH NSSPAREQNK TENEFDELTEIGC RRWVITNSSLKEHVVTQCKEA KNLEKMLQELLTRITSLEKNIN DLMELKNTAQELREAYTHINSQ TDQAERISEIEDQLNEIKGEDN IREKTVKRIE

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11560	41928	A	11629	1949	3232	PGKQDLEWTSKKLQQTCTRRGT LLVEGKLTNRKE*HQHQKQLR PHGNLIQRDHNCSAPAREQNWMM ENEFDKLTVGFRRWITITNSSK LKERVLTQCKEATNLAKRLEK LLTRITSLKNNKNDLMELKNATA QELREAYTSISGRINQAEQRTSE IEDQLNEIKRRGVSVCPQPS EDT PRSTARVPKGMVPPRPRVPLVT PPREKKEAPWLACLRTRALRLI DPSPQVWDIVSCDAENETKLEN TLQDIIQENFPNLAQANVQIQ EIQRTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREK\GQVT HKAKPIRLTADLSAENLQAR/R TEWGPPIFNILKEKNFQPRISYPA K\LSFISEGEIKYFTDKQMLRDF VTTRPALK\ELLKEALN\MERD N\RYQPLQNHAKFVKTIAREE TCINLMCQITS
11561	41929	A	11630	1	421	
11562	41930	A	11631	2	415	
11563	41931	A	11632	59	492	GHIGVRPSLHPVTSTTSGNVSP LARAMASISELACVYLALILHD DEVIIIEVNTILIKAAASVNV/ PFWPGFLFGKALANVIGSLICN VGAGGPALAAAGAAPAGGPAPSI AAASAEKKMEAKKEESEED DDMGFLGFTKPVL
11564	41932	A	11633	100	527	PPRTGQRQPLHSARRHGSPVS/E LACIYVSA LISARTDEVTVTEDK INALIKSSPL*MLSPFWPWLCLQ RPLANVNVIGSLICNVVGPVPEA ASQPGA\GPARKVLPSTAAAP S*RRRKLEAKRRKNPKEVLNDE HGLLVFLN
11565	41933	A	11634	1	675	
11566	41934	A	11635	1	1032	

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11567	41935	A	11636	3	976	HEAKHQMADDAGGS/AGGPEG PGGPWDGK\TPLL\SGEVFGIVIR GRGSRP/RGRGRGR\GRGARGG KGPRIK/WIGMPVHVQGAALVK DH*RSKFPWKEIYLFSLP\KGIK DS*FSFLA\GPLSKDEGFEGCLPV QKQTRAGQAQVSRPFVAIGG LQMAHVGSGVLSAPKEVATG HPVGAILAKLSIRPRAQKGIW TKY\WQSPNTVP\CKV\TGRCGF VVVRLIP\APRGS\GIVSAPVA\K KLLMMA\GIDDCYTSAPGCTAT LGNFAKGHPLIA\IFK\TYKLP*P PDL\WKETVFTKV\VPYQ\EFTH LVKDHPPESSVQRDLRLQLVAT
11568	41936	C	11637	279	322	
11569	41937	A	11638	1	107	
11570	41938	C	11639	69	134	
11571	41939	B	11640	223	950	
11572	41940	B	11641	1	684	
11573	41941	A	11642	1	564	EFGTRDNRVLLPLVNPTVFDDI AVD/GVYPLGRVSFELFADKVP KTAENFRALSTGEKGFG\YKGS\ CFHRLFP\GFMCQGW*L*SHHN GTGGKSHLWGRNLKDENFIIL KHTGPGILSMANAG\PNNTNGSP VFLTCTA\KTE\WLDGKH\AGL GKVKEGMNI\VEAMER\FGSRN GKTSKKIISIA\DCGTTN
11574	41942	A	11643	1	877	MSGALDVLMQKEEDVLKFHA AGTHLGGTNLD\QMEQYIYKR KSDGIYIINLKRTWEKFLLAAR AVVAIENPADVS\VISSGNTGQR AVLKFAAA\TGATPIAGHFTPGT FTNQIAAFREPRLLVV\TDPR DHQPLTESSVYNLPTIALCNTDS PLRYVD\ICNNKGAHSVGLMW WMLAREVLRMRGTISR\GHPWE VMPDLYFYRDPEEIEKEEQAAA EKA\VTKEEFQGEWTAPA\EFETA TQPEVADLSEGVQVPVPIQQF PTDDWSTQ\PATENWSAA\PTAQ ATEWVGATTDWS
11575	41943	A	11644	1	1674	

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11576	41944	A	11645	1	1121	MLEAVLEESPREEA AFSWVMK GNLAAAGKTIQAQDRDAVGLSS RTGESMENLQKNLLPKQRRRT RETFTMSGALDVLQMKEDVL KFLAAAGTHLGGTNLDFQMEQ YIYKRKSDGIYIINLKRTWEKLL \LAA\RAIVA\IENPADVS\VISSRN TGPEGLCLKF\AA\ATGATPIAG\ RFTPGVFTTNQIQ\AAFREATGF LVVTWTPGLD\HQPLTEA\SYV YLPTIA\LCNTDS\PL\RYVDIAIP CNNKGAHSVGLMW\WMLARE VLRMRGVTISREHPWEV\MPDL YFYRDP\EEIEKEEQAAAEKAVT KEEFQGEWTAPA\PEFTAQTPEV ADWSEGVQVPSVPIQQPFTED WSAQ\ATEDWSA\APTAQATE WVGATTDWS
11577	41945	A	11648	1	396	
11578	41946	A	11649	1	567	
11579	41947	A	11650	1	226	
11580	41948	A	11651	3	377	
11581	41949	A	11652	19	450	PDRRWSSLDTMNHTGQTFFSVPV NSGQPPNYEMLKEEHEVAVLG APHNPAPPTSTVIHIRSTSVDP HVVWSL\FTL\FMNPCLGFI\AF AYSVKSRDKMVG\DV\TGAQA YASTAK\ALNIW\ALILGILMTIL LIVIPGLIFQAYG
11582	41950	A	11653	210	2206	
11583	41951	A	11654	450	644	SLRLWV\TERTAV\TNLPSSRGV GDKPPVGS\PHLFLSLV\AFNPL QSTRNPASASQPQ\PCSAEQPAR RG*\AEPALRTV\PIHAEMWLPR LHEFEHRLVHRCFTLTFVDET DHCAVLPRGAGSGQG\GFERIL SQSPGSLWESC*\PGLWLNLSNP PPCPLPAPLGR\TAQ
11584	41952	A	11655	66	157	RGTWSIIA*\KSQGISWDRFE\VT LCREPFT
11585	41953	A	11656	1	2538	
11586	41954	B	11657	68	1602	
11587	41955	B	11658	1	1464	
11588	41956	A	11659	587	1081	ILSWLTLWSILRLYIVTLTGKIC SLTSEASEATSPPRG\TNNRSVA LA\VVTLVWRVCS\FIDSKAFIL AFAFFFSHWFSILPFP\PHGATL WYFWGDFEC\SRGPRNIHTDDR ARLVPMTERGGPPQGGEPART RSPRQGGRGGM\EGGE*\YPCPPH LGGQERKPG

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11589	41957	A	11660	180	583	YTEVLKGPDGAENHGTRTT** MHKPH*PIRSTGRKADKQLQQS LRINKINVQKSQAFLYTNNRQT ESQIMSELPFTIASKRIKYLGIQL TMDVKDLFKENYKPLLKEIRG YKQMGHEHSMMLGRKNQYSEN GHATAQ
11590	41958	A	11661	82	159	
11591	41959	A	11662	2	1008	NAAPLQQRNKAGCR/YDLDEL REEGFRRSNFFKLKAEVRTQCK ETKNLEKTLDKWLTRKTSVEK SLNDLMELKTMVQGLRDKCTN FSNGFDQLEERVSVIEEQMNEM KQEKKYREKKDRSMTQKVNK DIQELDSALHQEELIDYRTVHP KSTEYTFFSAPHRITYFKIDHIVG SKALLSKCKRTEIITNCLSDHSA IKLELRIRKKLTQNRSTTWKLN LLLNDYVWHNEMKAEIKMFFE TNENKDTTYENLWDTFKAVCR GKFRALNVHKKRQERSKIDTLI SQLKELERQELTHSKASRMQEI TKIRAEQKEKETEKNIQKNQRI QELFLKDKQQN
11592	41960	B	11663	1	1529	
11593	41961	B	11664	111	1350	
11594	41962	C	11665	1	2127	
11595	41963	B	11666	1	1350	
11596	41964	A	11667	1	1506	

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11597	41965	A	11668	1	1855	MIHIVPLYSSLGDRVKSCEKKRE RERERRKKERKKERKKERKK RKKASSKEREGRKKERKKKL RKKEEKERKKRKKRREGRKE RKKEKERKEGKKERKNIPGKR RESTDPLKEMDHRCLLPEMLK GTWWTTPARASGPAVPLLCE RQWTVDTTSVVPESTHMPGQM TQPIPADSHNMDEAGGHYPK QTNTRPENQILHVFTDKWELNT EYKDPKKRTTDRAYLRVEAT LAADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRSSFVLATL AADWMVPTQIEGRGRMTPHM AGYSSETKLPEERSGSSICGSPIS AVLQPPLLIPRQTGSGVDLQQT PTDLQLRLMERSSSPATEQSW MENDFDEMDEGFRRSNYSEL KEEVQTYCKEVCGRGKFKALNA HKKRQETSKIDTLTSQLEKELEK QEETHSKASRRQEITKIRAELEK IETQKTLQKINESRSWFFKEKINK IHRPLARLIKKKTEKNQINAIKN DKWDITNNLTIQATIREYYKKH LYANKLENLEEMDKFLDTYTL PRL*/N/CRQSLIAYYQIKVQDQ MDSQSNSTRGTRRSWYHSF
11598	41966	A	11669	2678	2897	PDGAKKHGKRTRDERTSFSEF NQLEERVSVIENQMNMKREE KFREKRVKRNEQSLQEIVDM* KDQMRSTS
11599	41967	A	11670	843	2004	NNQCREVLKGVGDGAESQGSRT REERRSLSRCDQLEERVSVIED QNMNEMKREGKFREKRIKNEQ SLQEIVDYYVVRPNRLIGVPES DGENGTKLENTLQDIQENFPN LTRQANIQIEIQRTPQRYSSRR ATPRHVVRFKTVEMKEKMLR AAREKGRVTHKGKPIRLTADLS AGTLQARREWGPINFILKEKNF PPRISYPAKLSFISEGEIKYFTDK QMLTIVHLKTLDIYMYNIRRPK GGEKKADQEVNSEPRNNIVLET KGDGRGPQAPSPGGPPRRVRR SASGSRAGITFHPVHYL TRRPFA HRFHYQSHGYGVGSVQSALR HKTNSAARAALRDGGVDCRGR ERGSACQKRSDDEAGGLVLS LPRVMGSGWEVRR
11600	41968	B	11671	1	3221	

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11601	41969	A	11672	82	160	
11602	41970	A	11673	1	551	AAAMADSGTAGGAALAAPAP GPGSGGPGPRVYFQSPPGAAGE GPGGADDEGFPVRRQKGVTVS YDRKELRKRL\NL\EDWIL*Q\LN GAFYDCQ\EEEEPELEIDVDELL D\MESDDARAA\RVKELLVDC YKPTEAFISGLLDKIRGMQKLS TPPEEVRVPDPGRITVAPTQGSL PPDLVATAITGGT
11603	41971	A	11674	362	650	
11604	41972	A	11675	1	651	
11605	41973	A	11676	1	3101	
11606	41974	B	11677	1	2838	
11607	41975	A	11678	1326	1980	TSEASRQSERVDSAALSLSLS RSSKCRPWGTARVARAGGCLT PLLSRRFLETRPFTGPWDPGLG VTCWCCPPKRLKSTPRPKFSV CVLGDQHQHCDEAKAVDATFEV CLGDQVLSNANGFLSLSAKKY DAFLASESLIKQPRILGPGLNK AGKFPSSLREEGQAICYSTNLT *SSLPSQVLC\LA\AVGHVKMT DDELVYNH\LA\VNFLVSLLK
11608	41976	A	11679	11	720	EAMSSKVS\RD\TYE\AVREV\H GTQRKRRKF\UETVELQISLKNY DPQ\KDKR\FSGTVRLKSHSPAL SFSVCVLGD\RQH\CD\EAKA\I\V DIPPHGPSEAAEKTSTKNKKLV QKSWPKKV*MPFLA\SESSDQA RFPRIPRAPGLNKAGK\FP\SLLT HNGKHGGPKV\DEVKVPQSRFQ MKKVLCLAV\AVGHVKMT\DE LVFNH\LA\VNFLV\SLLK\KNW QKCSGALYYQEA\PMGQSPKRL
11609	41977	A	11680	34	507	
11610	41978	A	11681	407	806	LRVGM\LRQSKANGPDDHLLG ASCTCGPSTGSPSRLPSLPQRP QKGLLHQ\RATRMKPGNIAKGL WKRLSKGTVMKLWLLTAVPRL SGLLVCP\LVHQL\LA\FAFKLRF PIFLWFRANRRHARF\SILFKLS RP
11611	41979	A	11682	1	1551	

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11612	41980	A	11683	1	751	MAGYSSETKLPEERSDSSIRGSR KSTVLQTLILLIPRQTGIKKLTQN RSTTWKLNLLNDYVWHNE MKAIEIKMFFETNENKDTTYQN LWD/YIQSSV*REIYSTKCPQEK AGKIQN\DLTSQLKELEKQEQ THSKASRRQEI\TKIRAEPEKIQT QKTLQKINESRSLFFKRINKIDR PLARLIKKKREKNQIDAINKVEK GISPPIPQNYKLPSENTNTSMQ IN*KI*KKWINSWTHTPSQE*TR KKLNL
11613	41981	A	11684	49	551	VRATYFHHAPANCTEFVPRQL VSRAENLPQATSLPTEKASRAF RVLLIPRQTRSGVDLQQTPTDL QLRVLI\RRKTNKQKGHPHQN PICTSP\RRSNFFELKEEV\THG KDAKNLEKRLDKWLTRISSVE KSLNDLMELRTMA*ELCDECTS FSS*FNQLEERSVSI
11614	41982	A	11685	1	1566	MNSLLTGQIPESQIHRDSSAAT WWKKIYRQKMGNDIEKSEVRG GLTPHTAGYSSETKLPEKRSQS SICGSPISAVLQPPLLIPRQTGS VDLQQTPTDLKRLVLT\VRKRS NKQKGHPHQPICTSP\SKTKD RSTRQKVNDIQDLNSALHQA DLIDIYRTLHPKSTEYTF\FSAPH HTCSKIDHIVGSKALL/EQM*KN RNYQKLSLRPQCNC\LELRICKL TQNHSTTWKLNLLNDYWM QKRPLKIQCCFMLKTLNKLID GTYLKIIRAIYDKPTANIILNGQ KLEAFLLKTGTRQGCPLSPLLL NVVLEVLARAIRQEKEIKGIQL GKEEVKLSLFA\DDMIVYLENPI VSAQNLPKLISNFSKVSGYKIN VQKSQTFLYTNNRQTESQIMSE LPFTIASRKIKYLG\QLTRDVKD LFKENYKPLLKEIKEDTNKWK NIPCSWVGRI\NVKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRACIAKSILSQKNKAG GITLPEFRLYTRLQ
11615	41983	A	11686	1	4962	
11616	41984	B	11687	101	3772	
11617	41985	B	11688	1	1047	
11618	41986	A	11689	21	287	

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11619	41987	A	11690	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERVSADEINEMKRE EKFREKRVKRNEQSLQEWDYL KRPNRLIGVPESDGENGTLE NTLQDIHQENFPNLRQANIQIQ EIQRMPQRYSLRRATPRHIIVRF TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRR WGPIFNILKEKNFQPRISYPACK
11620	41988	A	11691	1	1257	
11621	41989	A	11692	1	759	
11622	41990	B	11693	107	511	
11623	41991	A	11694	170	726	LLEGKLTNRKDIHTETPSVCHH HQRPKDIIHQENFPNLRQANIQIQ QEIQRTPOQYSSRRATPRHIIVR FTK/VEMKEKMLRAAREKGRV THKVKPIRLTADLLAETLQARR EWGLIFNILKEKNFQPRISYPACK LSFISEGEIKYFTDKQMLRDFVT TRPALKELLKETLNVERNRYQ PLQKHAKL
11624	41992	A	11695	1	569	MAGYSSETKLPEERSGSNICCSP ISAVLQPLLIPIRQTGSGVDLW QTPITDLQRLVLTVRRKINKQKG HPHQNPICSTSPSSKTKGQIRAE KEIETQKALQKINESRNWVFEK INKIDRPPARLIKKKREKNQIDA IKNDRGDIITDPTIEQTTIREYYK HLYANKLENLEERDKFLNTYTL PRLNQEEVESLNRPI TGSEIEAII NSLPTKKS PGPDGFTDAFYQRY KEDLVFLLKLFQSIEKDRILSN SFYEASIFLIPKLRDRTTKKEN* QTERSTTPKPHLYITIEDQRPD QSRTEGNRDTKSPSKNQ*IQEL/ WFLKRSTKLIASTKTNKEEKRE ESNRCKK**RGYHHRSHRNT NYHQIRL*TPCLK*TRKSGRKG* IPQHIIHSPKTKPGRS
11625	41993	A	11696	3	1039	
11626	41994	C	11697	1	1251	
11627	41995	A	11698	1	807	

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11628	41996	A	11699	1	713	MNSLLTGQIPESQIHRDSSAAT WWKKIYRQKMGNDIEKSEVRG GLTPHTAGYSSETKLPEKRS SICGSPISAVLQPPLLIPRQTGSG VDLQQTPTDLKLRVLTVRRKS NKQKGHPHQPKICTSPLSKTKD RSTRQKVNKDIQDLNSALHQA DLIDIYRTLHPKSTEYTFSSAPH HTCSKIDHIVGSKALL/QQM*K NRNYQKLSLRPQCNCQTRTQD*E THSKPLNYMETEQPAPE
11629	41997	A	11700	1	1768	MNLSRHLNEVKGELLWSLEWR DPDGGSSIRMEVGLGGWTQRLE EEKKGNVCSHGNLEKDFPYIPH LFLGLQKKMDLKGVFKSCFKI YCSSKHLKLTGFISEAVLCYGE GGEGDTVLTMKERWPHCEICVLI QCNKGRLLTPHTARYSSETKLPE ERSGSSICGSPISAVLQPPLLIPR QTGSGVDLQQTPTNLQLRVLT VRRKTNKQKGHPHQPKICMSPS SKTKDFKPTKIKRDKEGHYIMV KGSIQEELTILNIYAPNTEAPR FIKQVLSDLQRDLDSHIIIMGDF NTPISTLDRSMRQKVNKDIQEL KSALQQAADIDIYRTLHPKSTE YTFSSAPHHTYSKIDHIVGSKAL LSKCKRMEIITNCLSDHSAIKLE LRIKKLTQNRSTTWKLNNVLLN DYVWHNMKMAEIKMFFETNG NKDDTTYQNLWDYIQRSV*REI YSTKCPQEKAGRI*N*HPNIQL KELEKQEQTSHKVSRRQEITKIR AELKEIETQKTLQKINESRSWFF EKFNKIDRRRLARLIKKEKNQ IDAIKNDK/GISPLIPQYKLPSE NTINTSTQIN*KI*KKWINSSTHT
11630	41998	A	11701	535	666	KGRNIQLNGLVIGTLSN*LKCL KMFFTMLPGYINGGSSDFFLH
11631	41999	A	11702	20	262	
11632	42000	B	11703	1	1254	
11633	42001	A	11704	1	1032	
11634	42002	A	11705	481	1491	
11635	42003	A	11706	2	717	

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11636	42004	A	11707	348	1976	SRVRPVVHLRRAPMVCQGH TPPVCGSLAGPDCVHYSVPAG YSSETKLPEERSGSNCCSPISAV LQPQLLIPRRTGSGVDLQQTPT DLQLRVLTVRRKTNKQKGHPH QKPCMSPPSKTKGSNSHITLTL NVNGLNAPIKRHRLANWIKSQ DPSVCCIQETHLTRDTHRIKIK GWREIQANGKQKKAGVAILV SDKTDFKPTKIKRDKEGHYMM VKGSIQEEELTLNIYAPNTGAP RFIKQVLRDLQRDLDSHTLMIG DFNTPLSTLDRSTRQKVNKDIQ DLNSALHQVDLIDIRTLHPKS TEYTFFSALHHIYSKIDHIVGSK ALLSKYKTEIITNCLSDHSAIK LELRIKKLTQNRSTTWKLNLL LNDYVWHNKMKAINTLFETN ENKDDTTYQNLWD/YIQSSV*REI HSTKCPQEKAGKIN*HPNIQL KELEKQEQTSHKASRRQEITKIR AKLKEIETQKILQKINESRSWFF EKINKIDRPLARPIKKKREKNQI DAIKNEKGISPLIPQKYKLPSN TINTSMQIN*KI*KKWINSSTHT PSQD*TRKKLLNL*INTSMQIN
11637	42005	A	11708	1124	1717	LLEGKLTNRKDIHTKNPSVRHH HQRPKVDKTTKMGKQSRKTG NSKNQASASPPPKERSSPATEQN WTENDFDELREEGFRRSNYSSEL KEEVRTNAKEVKNFEEKLDEW ITRITNAEKSLLDLMEKTTAR ELRDECTSPSSQCINQLEERISAM EDKMNMEMKREEKFREKRIKRR EYQLQEIWVYVVRPNLCLIGVP
11638	42006	A	11709	1	3549	
11639	42007	B	11710	209	403	
11640	42008	A	11711	3	248	
11641	42009	A	11712	61	594	IQPLVSVLDEKPSNGVLVHMVK LLIKTFLDGIFFDLMEENVLNT DEIHGKCLKFVVSNAENLVD DITETAQTAGKIFREHLWNSKK QLSSVHGSEHEDKALTCHWVG HPGFPEKLKERKKFCGIMVVGL FGFTTDSGKAGADIHGRFLQGN FCNDAVTKAHVEKDFIAFKSST

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11642	42010	A	11713	1	430	FSAVREDGGCYLWQIYPIKERM DRIRLVLIIENKFDHLPPIRNGA DFAIMEMKKLLEDLGYSVVDVE ENLTAR/HNVSQGETGKGLPIF ITQLIACFQRYSWRCHLAEVFW KVQQAFFESPEATVQMPTIERVS MTRYFYLFPGN
11643	42011	A	11714	3	1195	
11644	42012	A	11715	35	1288	
11645	42013	A	11716	1	1641	
11646	42014	A	11717	1	2933	MVCSAAPLLLLATTLPLLGSPV AQASQPLWPMAGKQTMWAQT STLTLTEELGQSQAGGESGG QLLDQENGAGESALVSVYVHL DFPDKTWPPELSRTLPLAASA SSSPRPLLTGLRLTTECNVNHK GNFYCACLSGYQWNTSICLHYP PCQSLHNHQPCGCLVFSHPEPG YCQLLPPVPGILNLSQLQMPG DTLSLTLHLSQEATNLSWFLRH PGSPILLQPGTQVSVTSSHGQ AALSVSNMSHHWAGE
11647	42015	A	11718	1	357	
11648	42016	A	11719	73	1494	KSSHCIKMGPIFHKTSELFLPA TSCPSCPDQNEEDVSQTQYKEC CGGGWCSHSIFAVWHFI*RPDA T*FG*SSAYGFVADQCP*GSS* LYHLWYSYSGSENKQCG*RAA LGAGFSDKTPAHTVTMACISAN QAMTTGVGLIASGQCDVIVAG GVELMSDVPIRHSRKMRLML DLNKAAXMGQRLSLISKFRNF LAPELPAVSEFSTSETMGHSAD RLAAAFVSRLEQDEYALRSHS LAKKAQDEGLLSDVVVPFKVPG KDTVTKDNIGRPSSEQMAKLLK PAFIKPYGTVTAANSS/LLTDG ASAMLIMAEKALAMGYKPKA YL/RRDFMYVSQDPKD/HLLG PTYATPKVLEKAGLATMNDIDA FEFHEAFSGQILANFKAMDSD WFAE/NYMG*KKPRFGLPPLWR RFNNWG/GSLSGHPFGATGCR LVMTAANRLREEGRASMA*V AVACAAGGQGHAMIV/EAYPK
11649	42017	A	11720	1	642	

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11650	42018	A	11721	17	960	KSGARSLQPQLRAPEDGGPLS LPNAAMARGPKKHLNRVAAIP KHWM LDKLTGGCA/PRHSPVP HKL/RECLPLIIFLRNRLKYALT GDEVKKICMQRFKIDGKVRT *YNPTPAGFHGMSSAFDKTGEE NFPS*SIDTKGSAFA/VHPYLTTL EEGQSTSLVPKVKRSFVGHKK GIPSSWVTS*WPATIR*PRSPSSK VN*YHFRDLETWQRLLDFIKF \DTGNL\CMGDWGGANLGRN WVLITN\RERHPSFDPWFHVVK DANGN\SFATRLSNIFVIGKGNK PWISLPRGKGIRLTIAERDKRL AAKQSSG
11651	42019	A	11722	1	460	
11652	42020	A	11723	1	243	
11653	42021	A	11724	94	311	
11654	42022	A	11725	400	792	
11655	42023	B	11726	473	596	
11656	42024	A	11727	1	1707	
11657	42025	A	11728	3	484	
11658	42026	A	11729	122	253	
11659	42027	A	11730	1	803	RGGRGGAGAAGELAGPLPSP APFESPGFTPPGPWGSICPAFA HALHSGTVPARSGRTMARGAA LALLLFGLLGVLVAAPDGGFDL SDALPDNENKKPTAIPKPSAG DDFDLGDVVDGENDDPFPN PPKMPNPNPNHPSSSGSFS\DA DLADGVSGGEGKGGSDGGGSH RKEGEEADAPGVIPGIVGAVV VAVAGAISFIA YQKK\KLCFK\ ENAEQGEVDMESHRAQRQK PAVQRTLLKIEDCEPKQPAF GSRVRTAA
11660	42028	A	11731	335	476	
11661	42029	A	11732	2	169	
11662	42030	A	11733	49	289	VPVVQVPAAPGPLPGPATGSCS ASAAPRPDPPPGHPEGHGHS P/GVLGFEVGFISYCEQPKQCV TIKIFESPPIRRRL
11663	42031	A	11734	22	412	ARVGFLLGQEGKAGARASGPA DDVC\GKGASAIRSHMRASRSP PSPRRCHHHHEATGTASGSAAG GPGAGCVWLCRLALTPSAQDG RNSTFQTYKKEVCLPRHSHPCW MHAAGTTAGGSVAMSACCPSS SR

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11664	42032	A	11735	250	571	KGPRVTQGATVPKRQAPSAGL D/GSPISQFPWSY/DV*AIAILCG QGVV*PLPVSPGGPAPPESSVAL AEWVCSGSRRLPSNSGIARRPIG VIQPLDFLQNWPKPVLRC
11665	42033	B	11736	1	1593	
11666	42034	A	11737	2	1175	
11667	42035	B	11738	206	354	
11668	42036	B	11739	850	1461	
11669	42037	A	11740	2	663	VLLDERSAALDGA KR DGT LAL AAGALCREARAAQVFFLKGGY EAFSASCPCLCSKQ/INVSANCP NHFEHGYQYSILCGMTTHKA DISSWFNEAIDFIDSINKAGGRV FVHCQAGISRSATICLAYLMRT NRVKLDEAFEFVKQRRSIISPNF SFMGQLLQLESQVLAPHCSAEA GSPAMAVLDRGTSTTTVFNFV SIPDHSTNSALSYLSLITSSHC
11670	42038	A	11741	1	474	
11671	42039	A	11742	3	1354	WAVCATRVGGAVGGTAKKPR SPEPRVTLLSQSKSGFWFGAER PGGLAFPRKAPPCWPREQTKS TAGPITLGALRPAMVMEVGTL DAGGLRALLGERAAQCLLLDC RSFFAFNAGHIA GSVNVRFSTIV RRRAKGAMGLEHIVPNAELRG RLLAGAYHAVVLLDERSAALD GAKRDGT LALAAGALCREARA AQVFFLKGGYEA FSA SACPCLCS KQSTPMGLSLPLSTSVPD SAES GCSSCSTPLYDQGGPVEILPFLY LGSAYHASRKMDLALGITALI NVSANCPNHFEHGYQYSIPVE DNHKADISSWFNEAIDFIDSINK AGGRVVFVHCQAGISRSATICLA YLMRTNRVKLDEAFEFVKQRR SIISPNFSFMGQLLQF*VPQD/VL VPHCSAEGWEAPDMAVLDRG TSTTTVFNFVFIPIVHSTNSAL SLPFRGPINGPFPAG
11672	42040	A	11743	196	1260	
11673	42041	A	11744	5	447	
11674	42042	A	11745	1	328	
11675	42043	A	11746	3	364	
11676	42044	A	11747	1	816	
11677	42045	A	11748	1	1377	

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11678	42046	A	11749	1	989	EGRTVLGGGLGSAAAMASRL LNGAKMPILGLGTWKSPPGQ VTEAVKVAIDVGYRHIDCAHV YQNEVEVGVAIQEKLREQVVK REELFIVSKLWCTYHEKGLVKG ACQKTLSDLKLDYLDLYLIHWP TGFKPGKEFFPLDESGNVVPSD TNILDTWAAMEELVDEGLVKA IGISNFNHLQVEMILNKPGLKY KPAVNQIECHPYLTQEKLQYC QSKGIVVTAYSPLGSPDRPWAK PEDPSLLEDPRIKAIKAKHNKT TAQVLIRFPMQRNLVVIKSVT PERIAENFKVDFELSSQDMTT LLSYNNRNWRVCALLSCTSHKD
11679	42047	A	11750	1	855	
11680	42048	A	11751	2	367	
11681	42049	A	11752	2	376	QTYSLRRATPRHIIVGFTKVM KEKVLRAA/NKPIRLTVDSLAE LQARKEGGPIFNILKEKNFPQRI SYPAKLSFISEGEIKSFTDKQML KDFVTRPALQELLKEALNME RNNQYQPLQKHAKW
11682	42050	A	11753	1	1536	
11683	42051	A	11754	1	2541	
11684	42052	A	11755	1	1788	
11685	42053	B	11756	1	1014	
11686	42054	A	11757	1	777	
11687	42055	A	11758	1	1029	
11688	42056	A	11759	1	2052	
11689	42057	A	11760	1	1392	
11690	42058	A	11761	1	993	
11691	42059	A	11762	1	1240	PTDPAAEGFCLLDAKTNKRKGP STPILPFCSPFIRGPKVDSTHGA WGQKQHR*TGIF*RSRAPSPPA KEHGSSPATEQSWMENDFDEL REEGFRRIWYSELKEEARTHGK EVINLEKK\LDEWITRITNAEKC LKVELMELETKAARELREECRS LRSRRNQLEERVSAMEDEMNE MK\QEEKFREKKKKK*TKAL KELWDYVVKP/NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QANWQIRGNYRERQRLPPRG RATPRTHIIVRFTKVGNGREKM FKGQPGGKGRVTLKGKPIITLT ADLSAETSTSQTKEWGPINFIL GKEFSNPEISYLSQT*AFISGEE LNSFYRTSMLRDFCHHQASRL P*KSTRPALKELLKEALKHKG GNNPVPSHLQKFIA

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11692	42060	A	11763	1	1917	
11693	42061	A	11764	268	307	AHHTHLCLLTSPPEGR*VCWG CGLGWGVVLSLVCPP
11694	42062	A	11765	2	349	
11695	42063	B	11766	1	1734	
11696	42064	A	11767	1	603	
11697	42065	A	11768	1	420	
11698	42066	A	11769	115	796	EWSSVRRSLVEKRALRRPHQC LCFRMKTILSNQTVDIPENVDI TLKGRTVIVKGP/REGTLRRDFQ SPSMENFTFLERKKRLRVDK W/WGNRKE/LATVRTICSHVQN MIKGVTLGFRYKMRSVYAHFP HQPLL SRGNGSLV/E/RNFFG*K NISARVRMRP/GVA/CSV/SQAQ KGEF/ISLEGNDNELVSN/ALI QQATT/VKNDIRKFLDGIYVFE KGTVQQADE
11699	42067	A	11770	1	295	ASTAGVSYYVAQAGLKLGLS LSKCRDYRCEPPCP*MSLYKY MAMARKAMSL/YIYFFLDEFM YFAGTW/MKLETILSKSQGQK TKHRMFSLVGGN
11700	42068	A	11771	3	342	
11701	42069	A	11772	1	182	
11702	42070	A	11773	1	439	
11703	42071	A	11774	1	325	
11704	42072	A	11775	2	91	
11705	42073	A	11776	167	861	IWAILADPRMAQGKLRMEIGTK LRCLIWTVHKGVHVWTFWWV ERSQTGNLEVRRLWGLLTHL HSGVNSLFTRARIWNPSMIDW/I KKMWHIYTMEEYAAIKKNQF MSFAGTWMKLSAPAAPTVLFL ASFTNHYNLRASLLVESCLAPS YTSVEPRFSIPQSLTPARGSSDG HTCFSHQSHDSLICADSTHFW LSAHIWQANAPPVPRAPSEL KTRLKCSQPLNLRPP
11706	42074	A	11777	1	660	
11707	42075	B	11778	1	2633	
11708	42076	A	11779	1	2985	
11709	42077	A	11780	398	605	
11710	42078	A	11781	204	585	VTMCDRKAVIKNADMSEEMH QDSVECATQALEKYNIEKDIAA HIKKEFDKKYNPTW/HCI/VGEG TFGLSC*HIETKH/HLTSYLGA WAISFCFKFWFKRHGTVAHPV IPFQKQGIALLNFQLPED
11711	42079	A	11782	1	810	
11712	42080	A	11783	188	534	

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11713	42081	A	11784	1	1188	
11714	42082	A	11785	1	1137	
11715	42083	A	11786	19	428	ERRNSGNMALRVERSVRAVLC SLHVVLAPAAPCLSRPWQLGM GAVWVYCNLPEVGTGLNKQDE FGALERVKAASELYSPLSGEVT EINEALAEENPGLVNKSRVEDG WLJKMTLSNPS*LDELMSSEEAY EKYKISIEE
11716	42084	A	11787	66	631	RRDPRTPANMALRVVRSVRAL LCTLRVPLPAAPCPRPWQLG VGAVRTLRTGPAALLSVRKFT KHIEWVTTEGIGTVGNSFAQA EALGDVVYCSLPEVGTGKI*TKP SWSLVLESVKAASELYSPLSG AEVTEINAEALAEENPGTCKTNFC YEDGWLIKMTLSNPSE/LDELMS SEEAYEKYKISIEE
11717	42085	B	11788	46	743	
11718	42086	A	11789	209	401	MKPPVRSLSLTPPRSIIHGSSATEI EELNTTFKYLTGEQTEKMWQ RLKGMEIKLKN*G
11719	42087	A	11790	135	313	
11720	42088	A	11791	1	624	
11721	42089	C	11792	81	299	
11722	42090	A	11793	5	166	SPVMMSSFFLVCLLTT*RSPPSS SSSSSSSSSSSSSSSSSPSSSFS GSVV
11723	42091	A	11794	3	173	
11724	42092	A	11795	169	291	SCNSSLSFLSLSLVADPQIATYR /S*CSRLGHKGTLPGS
11725	42093	C	11796	1	429	
11726	42094	A	11797	1	279	
11727	42095	A	11798	3	376	
11728	42096	B	11799	1	736	
11729	42097	A	11800	753	2455	
11730	42098	A	11801	1	312	
11731	42099	A	11802	48	397	
11732	42100	A	11803	51	286	
11733	42101	A	11804	1	420	
11734	42102	A	11805	11	537	PDRPTRPCRQCARSFRRKLKAA VGVEGPSLSGELGTRVPAAPS PTTRPRAMAFCLPSFACIY/SALI LHDDEVT/VTEDEKINALIKSSR V*MLSPFWPLGFAKALANVN MGSICNVGAGGPPCPASWVL QPAGRSLLPPLAASSLREKKV EAKKEGFRGSFD*LTWGFGSF
11735	42103	A	11806	114	399	

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11736	42104	A	11807	3	599	AIRRLRISAREEERENQPRLLPL SLGAGGGVGGFVQWPRFKAR DLRGKKKEELVKQLVDLKVVE LVPSARRQKQGGAAASKLSKI RIVVRKSLAPCSPLFTQTQKEN LRKFYKGGKKYKPLADLRPKKTR AMRRRLNKHENLRITKKQQR KERLYPLRKYAVKALGGALSIIK HKENLTKKQQRKERLYPLRK YAVKA
11737	42105	A	11808	226	370	AGSP*FPQFSEA*RRGALGSGA DQDLSHPRITETLTSCSLQTSS PR
11738	42106	A	11809	3	7964	RSGSSSKFEPRSRSASVLPASAL GPPNTSPRQLVAHCALPATRMP VTEKDLAEDAPWKKIQQNTFT RWCNEHLKCVNKRIGNLQTDL SDGLRLIALLEVLSQKRMRYKY HQRPTFRQMQLENVSVALEFL DRESIKLVSDSKAIVDGNLKKLI LGLVWTLILHYSISMPVWEDEG DDDAKKQTPKQRLGWQNKI PYLPITNFQNWQDGKALGAL VDSCAPGLCPDWESWDPQKPV DNAREAMQQADDWLGVP
11739	42107	A	11810	1	636	
11740	42108	A	11811	3	261	OKKPLKQPKQA*EMDEVRA AEALAGAGALGRPELNTCLCS PEDKAFKQKQKEEQKKLEIK AKAAGKGPLATGGIKKSGKK
11741	42109	A	11812	1	621	
11742	42110	A	11813	1	1024	
11743	42111	A	11814	174	332	SHCLANAPGDVKVRNDPESP L*HL*R*RYNTRWKRSI*EEWC QGHSWRG
11744	42112	A	11815	1	1323	
11745	42113	A	11816	1	2322	
11746	42114	A	11817	1	336	
11747	42115	A	11818	22	391	PPPPAAKTRRKKVLATKVLGTV KWFNVNRNGYGFNRNDTKEDV FVHQTAIKKNNPRK\YLRVSGD GETVEFDVVEGEKGAEAAVNT GPDGVPV/EKGSRYAADRRRY RRCY\YDR\RRGPPEYV
11748	42116	A	11819	433	866	PPPPAAIDAEEKVLATKVLGTV KWFNVNRNGYGFNRNDTKEDV FVHQTAIKKNNPRK\YLRVSGD GETVEFDVVEGEKGAEAAVNT GPDGVPV/EKGSRYAADRRRYR IGYYGKARWPPFANYAGGRR RKGAAQVEGFLPPLPLD

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11749	42117	A	11820	63	484	
11750	42118	A	11821	1	819	
11751	42119	A	11822	150	463	
11752	42120	A	11823	63	594	FAKLNPNGKGGGEATRYMFSR PF*ENHGVVPLGHNN*RFYK GDIVDIQGEWGTLFQKGNCPH KVVTHGQNLGVLPMVTPAML VGHL*TNQF*GKVSFKRINVR IEPIKHSKRSDFLKRVKEND QKKKEAKEKGTWVQLKRQPA\ PPREAHFVRTNGKEPELEPIPY
11753	42121	A	11824	2	1376	
11754	42122	C	11825	132	341	
11755	42123	A	11826	155	245	
11756	42124	A	11827	3	293	
11757	42125	A	11828	204	467	LRAPHVACSRNQGPGMCNCL NTDQHTQTQRQG*EEKSSSK/ PISSLMEYYKRSQCYSVKARS VF*KLRAQAQLQETKKPVFR L
11758	42126	A	11829	1	768	
11759	42127	A	11830	348	568	REISYKERIGM*MPPSVILNSYV KSMLETYPHPLLRGVVAPGLK KGFLTESLLALPDPSFSGRMTSF KITPV
11760	42128	A	11831	1	840	
11761	42129	A	11832	2	216	
11762	42130	A	11833	1	726	
11763	42131	A	11834	3	3231	PGGWLRRALPGRERLQSPVHA VPPQHGTSRLLVTPWAGAG DQDFSSPPLLLGETDHLHDL PLSPLTSDFLPGICDPYVKL SLYVADENRELAVQTKTIKKT LNPKNWEEFYFRVNPNSHRLLF EVFDENRLTRDDFLGQVDVPLS HLPTEDPTMERPYTFKDFLLRP RSHKSRVKGFLRLKMA YMPKN GGQDEENSQDRDDMEHGWEV VDSNDSASQHQEELPPPLPPG WEEKVDNLGRITYYVNNH
11764	42132	A	11835	1	624	
11765	42133	A	11836	2	361	
11766	42134	A	11837	3	432	NSRVDDFVAAQDAKGGKVAP APAVVKKQEAKKVNNPLFEKR PKNFGGQQLRLARA EKAAG KGDVPTKRPPVLRAGVNTVTT LVENKKAQLVIAHDVDPDELV VFLPALCRKMGVPYCIKGGAR LGRLVHRKTCTTVAFT
11767	42135	A	11838	1	684	

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11768	42136	A	11839	9	247	AVTSDEPKGKKAKAKKVAPAP AVVKNQEAKKVVDPLFEKRHK N\FGGQDIQPKRASPRLCLEPR\ YIRLQQRQRAILYKRLKGPFCDY PGFTRALDRQTV*SSLKL\AHK YRPETKQEKK\QRLFARAREEG VLAKGDVPNERDPPV\LRARSL TPFHHPWVEKQEKQLV\VNWH TDVADP\NELVLLALPLCREKW GVPIYCN\YRREKARLWDR\VP QERPCTTCPPFTQGELRKTKGG FWLKLGWK\IR\TQFTIDQILMR SRRHWG\GNV\G\PKSVGS*SP KLEK\AKAKELAH*TG
11769	42137	A	11840	1	273	
11770	42138	A	11841	1	218	
11771	42139	A	11842	1	1522	
11772	42140	A	11843	136	441	
11773	42141	A	11844	24	274	SRQAWHEAASASARRRGTRSP ALSPARAPAGPIWTNARRSARA NSVSPAAAPPPRRPVSLSDPGE SCTRDPRAPDCGPFRC
11774	42142	A	11845	194	365	
11775	42143	A	11846	1	782	LLVVGTTVVVVPNGRFKEFM SRHVHLMCYRICVRALTAIITY HDRENRPNGGICVANHTSPID VILASDGYIAMVGOVHGGLM GVIQRAMVKACPHVWFERSEV KDRHLVVKRLTEHVQDKSKLP ILIFPEGTCINNTSVMFMKKGFS EIGATVYPVAIKYDPOGFDAFW NSSKYGMVTYLLRMMTSWAIV CSVWYLPPIID*ERQIEDAVQFA NRVKSATARQGG\VDLLWDGG LKREKV\KDTFKEEQKLYSKM
11776	42144	A	11847	3	916	
11777	42145	A	11848	13	473	DPPTDSLSPDGGSIELEFYLAPE PFSMP\LLGAPPY\SLGGVGD YAPLMVLMCRV\LEDKPIKPLP CCKKAVCEECLKVYLSAQIQCP TCQFVWC*CAGCAWKTSPSSPC LAARRPCARSASKST/SSAQIQCP PTCQFVWC\FKCHSPWHEGVNC KEYKKGD\LLRHWA\SEIEHGQ RNAQKCPCKIHIQRT\EGCDH MT
11778	42146	A	11849	92	1103	
11779	42147	A	11850	1	516	
11780	42148	A	11851	1	642	
11781	42149	B	11852	200	608	

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11782	42150	A	11853	1	1856	MEETGMCEGHGASPGMEASSG EREKRGTEASPGDREKRGTE ASSGEREKRRTEASSGDREKR GTGKASSGEREKRGTEASYG EREKRGTAAGGQESCAHCGG WLMPRAKPSTHIRETNPRGTEA TAMAMDHVGQADTTDSTDG SQWDPSEHSPNCGIREVGAGDP DTQQTGRHHCYYPACKETNEKT NTNRNSNTFIEQLLHAKQQRGN SGVPFKPGHMRALTTNALSW AKLYPDPWCLRMGGTGNEVFE NEIKTGSCWIKQEQGPRPQSP RSQVRPEADPGPSPLTKMSAEN EYRPPSPPKLAAERDKPSRLRP RGVPWRRESRVRAGRECALLR VAAEGARPPPAGMSYDRAITVF SPDGLHFQVEYAQEAVKRGST AVGVGRDIVVLGVKKSVAK LQDHRPVRKICTLHDN\VCMA FAGL/TPADARIVIQTGPGVEFQ SHRA*TVEGPRVTVEYITPLTF ASLKASVYTSQKWGARPFGIS GPHRGFSTFDGTP*LYQTDPSG TYHAWKA\NSIGRGAKSSARS SWEKNYTDKAIETDDL\TIKLV IKALLEVVQSGGKNIE\LAVMR RDQSLK\NLNPEEIEKYVA\IEIK EKEEN\EKKKQKKAS
11783	42151	A	11854	12	432	

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11784	42152	A	11855	1	1775	MSYPADDYSEAAAYDPYAYPS DYDMHTGDPKQDLAYERQYE QQTYQVIVEIKNFIQYFHKTVS DLIDQKVYELQASRVSSDVIDQ KVVEIQDIYENSWTKLTERFFK NTPWPEAAEAIAPQVGNDVFLI LYKELYRRIYAKVSGGPSLEQ RFESYNYCNLFNYILNADGPA PLELPNQWLWDIIDEFIYQFQSF SQYRCKTAKKSEEEIDFLRSNP KIWNVHSLNVLHSLVDKSNIN RQLEVYTSGGDPESVAGEYGR HSLYKMLGYFSLVGLLRLHSL GDYYQAIKVLNIELNKKSMYS RVPRVPRSPTYYYVGFAYLMM RRYQDAIRVFANILLYIQRKTS MFQRRTTYKYEMINKQNEQMH ALLAIAL/TMYPMRIDESIHLQL REKYGDKMLRM/QKGDPPQVY EELFSYSCPKFL/SPVVPNYDNI HPN/YHKE/PFLQ/QLK/VFSDDEV Q/QQAQLSTIRSLKLLHPCLV AKPGLASDLTEQEFRIQLLVF KHKMKNLRVDSA/VSQALDGEF QSASEVDFY/DKDM/IHADTK VARRYGDFFIRQ/NHKF/EELNPN P*RRMG/QRPWMIFTTHSGNLV
11785	42153	B	11856	1	537	
11786	42154	A	11857	98	334	WATERWKGRKNHEISWCKFPF KAIS*MRSSQMKPNFRCSSIT VLSVRGMVLF/LTACPRFKMSS RTDFRFGNPQVT
11787	42155	A	11858	4	422	
11788	42156	B	11859	1	2567	
11789	42157	A	11860	2	364	
11790	42158	A	11861	1	501	
11791	42159	A	11862	1	402	
11792	42160	C	11863	30	673	
11793	42161	C	11864	195	1263	
11794	42162	A	11865	3	648	
11795	42163	A	11866	200	420	ILPSALRPPNPNWNVG/YVQTQ LVSKPLSLPTGIPCSTTSNLIKPV ITKDARLHRVIVHGWG/KGTIPI AKIAIS

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11796	42164	A	11867	1	502	MQLPGRGHFSVCKANAGSTQA RQGASAGVAGCRGWLNYAAS EQIVLRVPHMRCEIPHKCVRRK SRIRPHSPFRLRNCWKGRSVRA FSLRLQAKGGCAARLSWVT PGFSQSRRCKTTASAKLACLQV RAQSEDISTVPIHYAYNMTRVG RMQMLGKYNPQSAKLVREAIL PTKATLDLSNQNNEDFSAFQLG LAQALHIKVTMTREVMSDEL TKLLEGNLKPADMMVEFTT GSLPENAVDVLNTALGDRKSF VALMALMEYSRYLVAEDKSAF VTPLYVEADGVTNGPINAMML MTGGFLTPDWIRNIAKGG*FQ YTFTFNRRNSRQCFFHIFQETSCK FFSMCF*SSLLTKHCHSSRDVW VFSTSFQHIRHTLIDGISNRTNQ LTCNTTSTRITIDGNSQVRVLSNTT
11797	42165	C	11868	1	3831	
11798	42166	A	11869	1	5370	
11799	42167	A	11870	1	3999	
11800	42168	B	11871	1	12036	
11801	42169	B	11872	1	16395	
11802	42170	A	11873	1	19997	
11803	42171	A	11874	1	70	
11804	42172	A	11875	44	613	AGTHLRPFSPSLAAMALRYPM AVGLNKGHKVTKNVSKPRHSR RRIGRLTKHTKFVRDMIREVCG FAPYERRAMELLKVSKDKRAL KFIKKRVGTHIRAKRKREELSN VLAAMRKAAAKKDLGPSPCPL PEIKDKLDRSPGSPAVRGWVW VCRGPAVPCLVPALSHTLSGCC LVVNQKPWPAHPSRGRSR
11805	42173	A	11876	1	150	FRGRCCVQRYRGCTLASA/CLL VGEAEAPSPVDPLERSRPYAVL RGQNLE
11806	42174	A	11877	447	725	
11807	42175	A	11878	2	206	RPVAYLLLQGWGRCCVQRYRG CTLASA/CLLVGEAEAPSPVDPL ERSRPYAVLRGQNLDQTLH*ST HQA
11808	42176	A	11879	1	413	
11809	42177	A	11880	122	268	
11810	42178	A	11881	1	555	

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11811	42179	A	11882	221	419	LQTLQGYSNQNSMVLVLPKQR YRPMQNRNALRNNAAYLQKSP *ADKQLQQ/ECQDTKSMCKNH KHSYTPITDKQRAKSRVNSHSQ LLQRE*NT*ESNLQGA*RTSSRR TTNHCSMK*KRIQTNGRTFHAH G
11812	42180	A	11883	1	2464	MDEFNLNTYTLPLRLNQEEVESLN RPITGSEIVAIINSLPRKKSPPGD GFTAIFYQRYKEELVPFLKLF QSIEKEGILPNSFYEAHILIPKPG RDTTIKENFRPISLMNIDAKILN KILANRIQQHIKKLIHHDQVGF PGMQGWFNIRKSINVIQHINRT KDKNHMIISTDAEKAADKIQQP FMLKTLKKGIDGTYLKIRIKYL GIQLTRDVKDLFKENYKPLLNE IKEDTKKWNIPCSWVGGRINIM
11813	42181	A	11884	2104	2637	MFQRGHISQWVVVVGALTFTFT SVLDTDPMRDNKRSGSEILPFC REHGTSFTYNHAHSPSCSPSCL FSGALALFSPENNSGFLCMTLPAS FTAGNRLFSSAGQPWWIQGF KAHAKARRLILLAFHHYCCRP LAVELKPSPVSTPTFLFA*LLPP CSVPGAILHESFGAITWDAE
11814	42182	A	11885	69	417	QTHSQHYTEWGWKVESIPPENW NNTRMPIFTISQIHRRSSSESQNT RERNQGHPNG*RGSQTVAF* YDRIPRKP*RLIQKTPRTASAAD TQANRVWSGPPASSNRPAEAGP DC
11815	42183	A	11886	376	597	ENKIPRNPTYKGCCEGLQGELO TAAQGNKRGRHKHMEKHSRLM DRKNQYPSAADTQANRVWSGP PANSNRPAEAGPD*PGQNFQYH VE
11816	42184	A	11887	5	292	LTVSCPSRMLFLTDTDLPLM FIKKLGANVASPSSKKPLFVIRL VITLTLPLACGLPTSSVSRTTFF RTMLPQAVEFAPPSTGTESHYY CCIW
11817	42185	A	11888	320	596	YPGKQGLEWTSSKLQQTCKRY RERHKDTP/TRRATPR/RHNCQV HQS*NEGKNVKGSRERSGYS QREAHQTNRSRLGRNSTSQKRV GASIQRS
11818	42186	A	11889	3	239	EASRGRIQQHLPFCNICCSAAS TGDTQANRVWSGPPANSNRPA AEGLDK*KEN*QTERSTPKPD LYTHIKDQSL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
11819	42187	A	11890	3	278	EASRGRIQQHLPFCNICCSAAS TGDQTANRVWSGPPANSNRPA AEGLDG*KEN*QTERSTTPKPD LYTIHKDQRLPIGLFTSPWISARI
11820	42188	B	11891	394	1213	
11821	42189	A	11892	856	1217	VDRSRLQKVSNNKL VQAKGGC SNPLQGS*KLDNPKDANS/RQQ PERTWKWIFPQPHR*GAFGPRH C*ESHL YQFGLDLLNSAGSGIG KNEVQEQKRAEVGARAAPKE LPEALSWFLKVLW
11822	42190	B	11893	1	894	
11823	42191	B	11894	93	938	
11824	42192	A	11895	149	508	LLEGKLTNKKDIHIKTPSVRHH HQRPKPKISL**ATSASQDTK SMCKNHKHSYTTITDKQRAINH E*TPIHNCFKESKIPRNPTKYRC *G/RSSRTANHC SRK*KRTQTN GRTFHTHG
11825	42193	C	11896	1	1257	
11826	42194	A	11897	183	1065	YWRCNGFLS*YAEAAEEIVDCI TESLSILKTPLPKKMNEEMLCQ EFGFGLASVKIMWPRTEER ARERNCGFVAFMNRDAERAL KNLNATAFRPALSHFPLPMDT TSQIPKHPVTVSSTNKLILIKTH FQAQSSLNQNIHPMDPSHGQY SAFSPSTPNPSHPALP*PLAIQVH HAVCDGFHVGRLNELQQYC DEWQRDKLEEILRGLTPRKNDI GDAMVFCNLNAAEAAEEIVDCIT ESLSILKTPLPKKMNEEMLCQE FGRFGLASVKIMWPRTEERA RERNCGFVAFMNRDAERALK NLNATAFRPALSHFPLPMDTT SQIPKHSRQFNKQAHSDHQD SLSGPVQSESKYPSHGSIPWDSI LSLLTLNTQPIPPSLALTHMEME SGLHFHCFTASPPSAVPPPELE KTTLKFIWNQKRARIANSILSQ KNKAGGITLPDFKLYYKATVT KTAWTGSPTAIRQARTTRQEKE MKGIQIGKEEVKLSLFTDDVNL QVRENK
11827	42195	C	11898	138	644	

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11828	42196	A	11899	2	3088	ADKTPGGSQKASSKTRSSDVHS SGSSDAHMDASGPSDSDMPST RPKSPRKHNRYRNESARESLCDS PHQNLRLPLENKLKAFSIGKM STAKRTLKSKKEQEELKKKEDEK AAAEIYEELAAFEFGSDGNKVK TFVRGGVVNAKEEHETDEKR GKIYKPSSRFADQKNPPNQSSN ERPPSLVIETKKPPLKKGEKEK KKSNELEFKEELKQIQEERDER HKTKGRLSRFEPQSDSDGQRR SMDAPSRNRSSG
11829	42197	C	11900	413	823	
11830	42198	A	11901	263	1246	NPGKQGLEWTSSTPADLQLR VLTVRRTNKKQGHPHQNPCT SPSSKTEVENLEKRLDKWLTR LTNVEKSLNDLMELKTMAREL HDEGTSFSSQFDQLEERVPMME DQNMENKQEEKFREKRMKRN EQSLQEIRDYVKRPNRLIGVPE SDGEWKEPSWKTLCRILSRRTSP A*QGRPTFKFRKYRECHKDTPQ GEQLQDT*LSDSPKLK*RKKY* GQPERKKYRLPSANTKTSLRK* TRKSRRNG*ITGHIHPPKTPGR S*IPE*TNRL*N*GNN**PANQK KSRTRRIHSQILPEAQRGAGTIP SETIPINGKRGNNPKLIL
11831	42199	B	11902	67	2584	
11832	42200	A	11903	1	3793	MSDAEDERFLQFLRYRYVLT GDCRTVAGAGQWVQRTEREPKQ GEALPHPGSARGWGVPPRDD GWHLENRVPTLILRFSHSLSK QHTRRPYSAPGSEGTPTPCSL LAQQSEIKLQDGSEAGGGLLLI PRQTGSGVDLRQTPDMQLRV LTVRRKTNKQKGQPHQNPCTS PSSKTKAPHHTYSKTDHIVGSK ALLSKCKRSEITNCLSDHSAIK LELRKKRIQNRSTTWKLNLL LNDYCVHNEIKAEI
11833	42201	A	11904	1	441	

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11834	42202	A	11905	312	3705	FIMPAVASVPKELYLSSSLKDL NKKTEVKPEKISTKSYVHSALK IFKTAEECLDRDEERAYVLYM KYVTYVNLIIKKRPDFKQQDDY FHSILGPGNIKKAVEEAERLSES LKLRYEEAEVRKKLEEKDRQE EAQRLQQKRQETGREDGGTLA KGSLENVLDSDKDKTQKSNGEK NEKCETKEKGAITAKELYTMM TDKNISLIIMDARRMQDYQDSC ILHLSVPPEAISPGVTASWIEA IILPDDSKDTWKKRGNV
11835	42203	A	11906	1	609	
11836	42204	A	11907	3	755	LRVDNAPAHASGLFFCAGAAG TVLFAMAPSRNGMVLKPHFHK DWQRVRVATWFNQPARKIRRI RPRQAKARRIGAPRGGGPIRPI VRCPTGRVHNGSWRPGRGFQP GRSSRVAGHSRKPVPAPDPSGIS VDPKIRRETSSHGSPPLQAQAS GLKEVYRSQTQSSSRKPSAS/PL *GDSSAEELKLATQ/LTGPMVP VRNVYKKEKARVITEEVKNF KAFASLRMARINARLFGIRAK RAKEAAEQDVEKKK
11837	42205	A	11908	1	327	
11838	42206	A	11909	1	756	
11839	42207	A	11910	1	219	
11840	42208	A	11911	2	227	
11841	42209	A	11912	1	567	
11842	42210	B	11913	99	799	
11843	42211	A	11914	61	342	
11844	42212	B	11915	1	945	
11845	42213	A	11916	92	133	DPFSQKLKTLRKD*TNG*LQ*P MKRSP*MT*WS*KP*HENYVTH AQASVPDSINWKKGYQ*LKIK* MK*SKKRSLEKKE*KETNKASK KYGTM*KD
11846	42214	B	11917	1	368	
11847	42215	B	11918	1	106	
11848	42216	A	11919	1	705	
11849	42217	B	11920	1	834	
11850	42218	B	11921	1	1305	
11851	42219	A	11922	1	1187	
11852	42220	A	11923	228	619	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
11853	42221	A	11924	1499	2238	KGKKKVINQISLGQRMRLSQSS HGKVVQACQVPFHPNAPPAVQF QSRELQSGSRPRSCGEKATRCLE RQGPREVPLPKNAWA*QRKQE KKRSRKGS/GREPGLRRPPNAQ ARDRSSRAPATHRKELKPEREH ISCSRSIRYQEWVSLRDTVHR NLVLDTKRHPALILVEYKERTS SPATEQSCMENDFDELREEGFR RSVITNFSELKEDVQTHHKEAK NLEKRLDKWLTRINSVEKSLND WMEKKTMA
11854	42222	A	11925	699	796	
11855	42223	A	11926	1029	1223	ERELPDPLRFPSEGNASALLSAS RTVRASTDLRPLSGTP*RDEPGT SDGNAEITRLRLRSQWEL
11856	42224	A	11927	186	1597	
11857	42225	A	11928	1	1200	
11858	42226	A	11929	1	600	
11859	42227	A	11930	1	663	
11860	42228	A	11931	908	1331	GDMRGREGGFGLGRRTAMRC GCSPGIVREADNLVKLSRPSTV RVTRSSASVMVLTMLAPATFL RVNCWAG/RGR/*SQNETVSR TRCEEGR**KDYRVEEQRLRKN WDLARPGEELQAPSPEKRDPL RVKDQGRHPCVV
11861	42229	A	11932	1	1707	
11862	42230	A	11933	1	1012	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQPDLDIYGLTHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIHTSYLSDHSAI KLELRQNLQTNHSTTWKLNLL LLNDYWLHNEMKAEIKMFET NENKDTTYQNLWDAFK/RSV*R EIYSTKCPQEKAGKIQN*HPNID QQN**TTSKANKEKKREDSNRC NKK**RGYHHRSHRNANYVHR ILQ/YTSMQIN*KI*KKWINSSTH TLSQD*TRKKLNL*IDQ*QELKL WQ*SIAYQPKRVQDQMDSQPN STRVASKRIKYGLQLTRM*RTS SRRTTNHCSMK*KRIQTNGRTF HAHG
11863	42231	C	11934	1	1788	
11864	42232	A	11935	550	827	DVSWAGRSEDHRWIFLKEQRT GGPPK/ERSRSESRHQISCMCAA STWMERTAYGGSHRELLQL PQEHTRKTLPLQQTSAWYTRLF HTSCEI

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11865	42233	A	11936	584	1094	NWIPSLHLTKLLIQDGLKT*MLDLKP*KP*KKT*AIPFRT*AWAR TSLCKHQKQWQKPKLTNGI*L N*RVSA/PAKETTISMN/EATYR MGENFCNLI*QRANIQNLQ*T QTNLQEKNKQPHQKVGKGHEQ TLKKRHLCSQKTHEKMLIITG HQRNANQNHNEMPFHTS
11866	42234	A	11937	797	1044	EESIS*KWPVCPR*FVDSMPSPS SYR*VSSQNWKKLL*SSYGTQK EPTLPSQS*AKRTKLEASHYLTS NYTTRLQ*PKQHG
11867	42235	A	11938	176	374	LTNQKKSRTRWIHSQILSEVQR GADKQPNRE*TPHNCFKENKIP RNPTYKGCEGPLQGLQTTAQ
11868	42236	B	11939	1	1843	
11869	42237	A	11940	3227	3391	DPLPGQRQLLLQKQRRP*TAAG LLSFQPGQPHGSVPPTLSQPW LPGGWPELSG
11870	42238	B	11941	1	1479	
11871	42239	B	11942	1	2097	
11872	42240	A	11943	654	1341	KNRNYNKLRLRQCNCQTRTQD *ESHKSLNMYMETEQPAPE*LL GT*RNENGRNKDVL*NQREQRH HIPESLGRIQSSV*REIYSTKCLQ E//MQERSKIDTLTSQLKELEKQ EQTHSKASRRQE/DN*NQSRTE GNRDTKNPSKNQ*IQELVF*KD QQN**TASKTNKEKKREESNRH NKK**RGYHHRSHRNTNYHQRI LQTPLRK*TRKSRRNGYIPRHH SPKTKTGRS
11873	42241	A	11944	471	611	
11874	42242	A	11945	1	585	
11875	42243	A	11946	3	1029	GRQHGGSQRMGGTASARASSG RLAPRGRGAFARRRCPSPRRW RLTCGPAAVEHSFCHNVGPGV RATADKYTCMFTYASQGGTNE QWQMSLGTSEDHQ/HFTCTI/W RPPRGKSYLYFTQKAEVAGR LRFYRHLGLTFKAA/SLKRES VPLENLRNFEVQNQSSGLTRPG GISKAELSKLIVGQGIKALSCD QQPLLRRGGTFSPPVKLGACVP ERAQHITGFLGTLKFSTWADV ALSRRGFGSWLKPWGREQRVQ GPPGSQQLFRPLPVKLFWTQD RRSRGTKRVGNMGMALGKAA MLPPTSSRASFMSLQNCFFMFT QGTSPQMNWEEKCFFIFK
11876	42244	A	11947	1	1206	

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11877	42245	A	11948	1	654	
11878	42246	A	11949	849	1089	SPEGKHYRCYL VHMPDTERSS L*MRPRAGRSSAEGPGCRQRL ALDHMVQQAQRWCWRYQWWR RFSKEFNQWWRFSSEEL
11879	42247	A	11950	5	1376	
11880	42248	A	11951	2	278	VPQPDTRKGSVLK WISKRGKPL AVEIEESHCLCLPLRTECLGKIP VVHLFSCTRPVIWPSLELNVDV DSIAHMFVADLLMITLPSYDIP
11881	42249	A	11952	3	267	
11882	42250	A	11953	1152	1338	FKRGQYGRLLRPRFHGQILYA RRQGAIEPLAIQVHHAVCDGFH VGRMLNELQYQCDEWQGGGA
11883	42251	A	11954	394	615	ASDPLRGLLCPSSLDERHPLL HGAQSHRPPKG*GVRANNAGL AGSSIYLQPRCGIHEVKPSGLLS REGQLQLQS
11884	42252	C	11955	114	362	
11885	42253	A	11956	1	211	
11886	42254	A	11957	395	547	
11887	42255	C	11958	412	641	
11888	42256	A	11959	3	905	SNNSPTSASRVAGITGVHRHCV NWWVLGLTDFKNEAVDPRAW TTKSKTPPQNKTKQENKNEDV GRDQVVEWLVTVEVSELKLG EKLHWKEKEVQSTGKETDARS SMRNYLMLLGPEVQEKEPVKR RLARGKAFVELAEPTRAPGNSG FPVSGGVFTPSLGA LTWICKFR VKS WAILNSQLLDTMKKGIV YKNGDRIQGNRSADNRNNGVP LTGARDMQPAMPEPPTHSMGS CAARAFPMASASC FRAPSPIDH PKAEE\WGARRGTGGQ\PTCSP GAGIHWVKPAGLLSREGQLQLH
11889	42257	C	11960	482	709	
11890	42258	A	11961	1	734	MRLESD/KHLVQFVPIHKSGL EYPIGPWLPFITNSRVQEAFYH DRHSFEAVLDNAAPESVDLAE AERLAEDLRLLYVALTL SAFAP LVRRRGDKKGD TDVHQSA LGR LLQKGEPQDAAGLR TICIEALCD DDIAWQT AQTDGNQPVQVND VSTALNAKTLQRLPGDNWRV TSYSGLQQRGHGIAQDLMPRL DVDAAGVASVVEEPTLTHQF PAGASRGTFWHSLFEDLFTQ PVPDNWRL
11891	42259	A	11962	21	898	
11892	42260	A	11963	1	1962	

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11893	42261	A	11964	1	313	MRFYGGLEAEDPGQKAGETTR HTEDYISQLPLQRQGIPELALQK DLFINKIYGKEFNVCSTLEDPR VHVLCRDMDEAGNHSEQTIA RTENQTPHVLTHRRELNNENT WTQGGHEHTPEPVMGWG*RPR AAKSWGNNKAY*RLYFSAFA ETRDPRTCPSESFY*QDLWK/ MSSMSAGRL*RIPEFMSFVGW MKLETILSKLLQGQKTKHRMF SLIGGN
11894	42262	A	11965	47	178	QQLVHTAFVIRLIRGTTEGAWR NCKQMAR*QSISLECKFMPRT
11895	42263	A	11966	2	223	
11896	42264	A	11967	2	133	
11897	42265	B	11968	179	6003	
11898	42266	A	11969	1	1125	
11899	42267	A	11970	1	360	
11900	42268	A	11971	677	1238	
11901	42269	C	11972	193	471	
11902	42270	A	11973	17	280	
11903	42271	B	11974	1	654	
11904	42272	B	11975	526	597	
11905	42273	A	11976	1	1261	
11906	42274	A	11977	170	998	
11907	42275	A	11978	1	1130	
11908	42276	A	11979	1	369	
11909	42277	A	11980	1	300	
11910	42278	C	11981	207	451	
11911	42279	A	11982	1	348	
11912	42280	A	11983	2	469	RGIREGEEDVDLAGMEVAVG GWGRGLWLHRHQAGIRGQSLG WRCRPWVGAGGVQAASERPD LAGSIMGPEVGALRRASPVIVIQ SQAGAFSSNTTCQQFRDPCFR GRYPASPHTLSPETAHL*LLL CLPAAGVLPHTWPLLDROGWH RGHAR

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11913	42281	A	11984	1	937	MAAPLVLVLVVAVTVRAALFR SSLAEFISERVEVVSPLSSWKRV VEGLSLDLGVSPYSGAVFHER QYIPVKMKSKAFWIFSWEYAM MYVGS/HSGNHLPLLLPSQLLG FHPRSL/VALYFLFQISLQTLVIF WYFFAEMFEHFSLFVVCVFQIN VFFYTIPLAIKLEHPIFFMFIQI AVIAIFKSYPTVGDVALYMAFF PVWNHLYRFLRNIFVLTCIHVC SLLFPVLWHLWIYAGSANSNFF *GITLTFNVGQRPRLKAPRASS AARSDRGAASPA SPGDAARPV SGRRPWDAPPHNYLNAVPPPSR
11914	42282	A	11985	1	521	
11915	42283	A	11986	1	207	
11916	42284	A	11987	1	867	
11917	42285	C	11991	1	225	
11918	42286	A	11992	72	425	
11919	42287	A	11993	1	354	
11920	42288	A	11994	460	752	
11921	42289	A	11995	93	401	PQKKYIHIFLDSLALLPRLECSG AISAHCKLHLLVSSDSPASASQ VAGITGARHHAWLIFVFLVEM GFHH/VGQAGLELLTSGDPPAL ASQRAGVSIFYLFI
11922	42290	A	11996	2	315	
11923	42291	A	11997	615	1180	
11924	42292	A	11998	3	151	
11925	42293	A	11999	2126	2241	
11926	42294	A	12000	1	765	
11927	42295	A	12001	924	995	
11928	42296	A	12002	1	789	
11929	42297	A	12003	2	132	FFFFLVEMGFHHVVGQAGLKL TSSDRPPWPVKVLGLQARAT
11930	42298	A	12004	504	755	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
11931	42299	A	12005	1	1322	MAILPKVIYRFNAIPIKLPVTFET ELGKTTLRFIWNQKRACIGKSV LSQKNKAGGITLPDFKLYYKAT VTKTAWYVYQNRDIDQWNRT ESSEIMLHIYNHLIFDKPDKNKK WGKDSL FNKWCWENWLAICR KLKLD PFLTSHTKINSRWIKDL NVRPKTIKTL EENLGNTIQAIG MGKDFMTKTPKAMATKAKID KWDLIKLSFCTAKETTIRLLG RPPALFTASSSVLKQLALEGILI LDSRALLGFLY EARHSHSNSPN HDAQNATSKKNIRDGYDKIYR QEQLARMEKTLITAGGNVK WCSHFRKQIGGQWLTLETGTK TPQPFSSTSQISTDKDGLNPQL LKMDPGHMGWCPPGMGIPWQ LSSDDR VVWLAAGSGRHPGS GFKSL/PGLLHEGSYGH****S*I *GGNS*GSSGGPQCISGEERVFR
11932	42300	A	12006	12	143	
11933	42301	A	12007	1	534	
11934	42302	A	12008	1	591	
11935	42303	A	12009	2	353	
11936	42304	A	12010	1	1923	
11937	42305	A	12011	1	465	
11938	42306	A	12012	1	784	PGWEKMRSSSVVNTQ EALPT AAIPRDAKGRVYYFNHITNASQ WERPSGNS:SSGGKNGQGEPA/R VRCSHLLVKHSQSR:PSSWRQ EKITRTKEEALELINGYIQIKQS GEEDFVESLASQFS DCKHQPKA RG/DLGAFAQQK VRLQKPF* RTP RFALADGGR*AGPCFTD:SGIHII LPHLSEG WGAQAWPRGRAGRL GRPAPPCPPASGRTPHSLPPSHSI YCSHNGWEGALPDWGPFTGG PGVPHLSVPSWGC DLQTLH
11939	42307	A	12013	1	319	PRERAPRGSVGAGGEICHTSVC CCQPSWTRL.LLLITWMLL/YYS ECKPFHCSREPDNHILLKI*EF GPPSTQGGHAAPLSRSRYS CCP DRYL.I.RKL.GICQEHL.I.
11940	42308	A	12014	1	1058	
11941	42309	A	12015	1	861	

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11942	42310	A	12016	1	431	IVLGGVATTVCQLNEFIMTDNA VPADVLVLTKPLGTQVAVAVH QWLDIPEKWNKIKLVVTQEDV ELAYQEAMMNMARLNRTGGL LICLPREQAARFCAEIKSPKYGE GHQAWIIGIVEKGNRTARIIDKP RIMEVAHKWPLKM
11943	42311	A	12017	1	1020	
11944	42312	A	12018	247	1436	GERGPRMTMSTRESFNPESYELD KSFRLTRFTELKGTGCKVPQDV LQKLLLESQENHFQDEQFLGA VMPRLGIGMDTCVPLRHGGLS LVQTTDYIPIVDDPYMMGRIA CANVLSLYAMGVTECDNML MLLGVSNKMTDRERDKVMPLI IQGFKDAEEAAGTSVTGGQTVL NPWIVLGGVATTVCQPNFEMIP DNAVPGDVLVLTKPLGTQVAV AVHQWLDIPEKWNKIKLVVTQ EDVELGLPGRRLMNMARLNRT AAGLMHTFNHAHAATDITGIFG ILGHAQNLGQASRRNDVSFVIF NLPGAWPRWLA VSKACGNMF GLMHVTCPETSGGLICLPRAE QAARFCAEIKSPKYGEHGHQAWI IGIVEKGNRTARIIDKPRIIEVA HKWPLKM
11945	42313	A	12019	219	380	RPLQIRSHSELLGVWVPTSEF*E DITTSVVTAGLLEVSWSGRVILC SKSFPALQS
11946	42314	A	12020	1	516	
11947	42315	A	12021	1	228	
11948	42316	B	12022	56	656	
11949	42317	A	12023	1	488	
11950	42318	A	12024	3	419	
11951	42319	A	12025	1	348	
11952	42320	A	12026	1	708	
11953	42321	A	12027	25	213	
11954	42322	A	12028	1	1165	
11955	42323	A	12029	1	411	
11956	42324	A	12030	1	996	
11957	42325	B	12031	1	744	
11958	42326	A	12032	1	444	
11959	42327	A	12033	1	555	
11960	42328	A	12034	1	2241	
11961	42329	A	12035	1	408	
11962	42330	B	12036	1	423	
11963	42331	B	12037	1	507	
11964	42332	A	12038	3	529	
11965	42333	A	12039	191	319	
11966	42334	A	12040	1	660	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
11967	42335	A	12041	1	579	
11968	42336	A	12042	1	2940	
11969	42337	A	12043	1	4280	MEYYAAIKKDEFMSFVGWTW MLEITILSKLSQGRKPKRRMLSL IGSQLLTNKGTSWMENEFDELT EVGFRRTLHPKSTTEYTFSSAPH CTYLLKIDHIIASKTLISKCKRTEI ITNGLSDHSVIKLELKIKKFTQN CITTTWKLKNLLNDYVWNNEI KAEIKMFFETSENEDTMYQNL WDTFKPLCRGKFIALNAHKRR QRRSKIDIQTAQLKELEKEEQQT NSKASRRQEITKIRAEALKVTETR KTLQKINESRSW
11970	42338	A	12044	1	645	
11971	42339	A	12045	3	362	LDQLLDMSYE/QLMQLYSCAQ RRRLNPLGRKKQHSLKRLRK AKK/EAPPMEKPEVVKTHLRD MIILPEMVGSMGVYNGKTFN QPEMIGHYLGFEFSITYKPVKH/G RPGIGATHSSRFILK
11972	42340	A	12046	1	519	
11973	42341	A	12047	2	599	PPRRSEDPAKMAEVEHEEGSG PFRKFTLPAADVLDQQLLDIVPT KQFDAAVQVAAQRRRLPEPGL RRKQ/HSPA*KRLRKAKKGGPA PWRKPEVVKT/HTLRDYDHSYP EMVG/SMGVYNGK/TFNQV GDQGVCGRPCLGWAGVA*CR RDQLTPSFALGLPQPEMIGHYL GEFSITYKPVKHGRPGIGATHSS RFILK
11974	42342	A	12048	8	224	RTASYPRRFPWDHLLICPCQQL LICFLSLWIRLVFTKVSCT*NNH NMFSCVWLLLLSMIFLRFTHIA CIRNI
11975	42343	C	12049	65	163	
11976	42344	A	12050	3	187	
11977	42345	A	12051	3	689	HASDQKEIIIEPFQAVDEVERVP EDYYTGPPVYLTEVTTLQQRLLQ PDFQPVCAQLYPRHKHLLIKR SLRCRCKEHNLSKPEFNPTSIFK KIQLVAVNYIPEVRIMSIPNLR MKESQVLLTLNPNVNLTHVTL LECEEGDPDDINSTAKVVVPPK ELVLAGKDAAAEYDELAEPQD FQDDPDIAFRKANKVGIFIKVT PQREEGEVTVCFKMKHDFKNL IAAPISP
11978	42346	A	12052	1	882	
11979	42347	C	12053	152	404	

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11980	42348	A	12054	3	398	LRKIKIDLKGFSDNPDGYIDVLQ GLRQSFDLTWDRIMLLDQSLT PNEKSAAKTAAREFGDLWV/V/S FQN*SCKTNRSSNGAPDAVHD *D/PTADPWTGPLAHALMLMTL KAPLTRKSQLHDPYYAPIQEEA V
11981	42349	A	12055	2	286	
11982	42350	C	12056	261	482	
11983	42351	B	12057	1	1133	
11984	42352	A	12058	438	575	NKTRMPSLTITPLQHSTESPSQSS QTREGNKGYPNW*RGSHTVTV C
11985	42353	B	12059	50	309	
11986	42354	A	12060	1	870	
11987	42355	A	12061	148	368	ELSSCSLMSHRAIHPSEERATT T/NQQSEPGSW*GWVGANRWC HKMSSGSLGTEPCGSLACSA WTVTVQAQ
11988	42356	A	12062	405	707	RLSLQTAGCSDVPVFPSPAGPP SPA*AP*SGSAASPWPFPAPSA HVAMPAPPRHWQQLSKMPPPW PPDSPVPPGCLA*AEAPPHCPV HLPASRSALS
11989	42357	A	12063	90	470	KSVHSLPPSFSSLLPWTCNRTLS KPPALPSPSRQPECRRLHCSG SRHSSCPSSSSPSFSSSPSPSSS SASASPPPPSPSPAPP*LWLQPL FCSQ*QLCHCQELVHLESRLTY PYHSSNQPF
11990	42358	B	12064	1	474	
11991	42359	A	12065	1	383	MEYYAAMKNDEFMSFVGTWM KLETHLSKLSQGQKPNACSHS WMDPQRRGKRQSLSISEAGAN QFPKSVFRFFGLGDSKVGSKWS ATCACEPIHTSEYCGDRVICKTT SSLRGASFAWCSSGNGE*WFP SSMSLQRT
11992	42360	A	12066	1	384	MIITGLEDYEMGLRMEGTLEIP GHYQKDKFLAQSTPDLLLPKTS LTNPFISNQLAERQIVTFTVYP DTERDRETRNLADLKQIKIDL KFSDNPDGYIDILRGLRQSFDLT WRDIMLLNQTLAPN
11993	42361	A	12067	152	238	
11994	42362	A	12068	89	544	
11995	42363	A	12069	62	199	SWKPSFSANYHKDRKPNTACS HS*DPAFLAPSPVP*SRPLRPPQ D

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11996	42364	A	12070	1	655	SVSGLVEKVTFEQRLLKGEGDS TVGSSGNEIFRQWPCWELSNCG SLQGDAGCSCLVVHVTFPAGSL SGDGLPTAQWLQSLVLGGR RVNSTQGHRCCHWGSVAEPCV LVKRHHAAQEGLCFSQKTPRS QVPFHLFWDPGHHTLLCSYCPS GVAGTQPAVQAVSTAV*TAAE GEPLPMSENMRCLVFCPCDSLL RMMVSSSFRVPTKDMNSSFFM
11997	42365	A	12071	1	987	MLVLGYNRKNTGQTQKQGT NASDFHFLSQLEQVVSFGSK EAQCCVLRHLGCESSAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLGKERR QREGERRERKREKREKRESQR KERKREKKGKREKREKDRSDL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYLTLWRDIMLLDQTL TPNERSAATAVREFGDLWYLS QVNDRKITEEREQFPTGQAVP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKRKKPM*SMISTI TQKKEENPTAFLELRREALRKH
11998	42366	A	12072	1153	1379	CLASWKEKSLHCPQRKQRLR GEELEKLLKKWKETATQIKRSYC WI*PSKSPHYLTS*KR*WNY**L GNYSINIPAS
11999	42367	A	12073	1	864	
12000	42368	B	12074	8	441	
12001	42369	A	12075	62	332	TDSPHCTDPPSRPTVPASCLRK CCGSTMPTARPIMPTLMETR*M PISPRVS WAGPRPTSWPALISST LFPRMANHWRD*SRITWFQGG A
12002	42370	A	12076	34	409	TRAAGIRHEGKPEKTGLKRNFT N/DCRKS*TSR*STTSRSRSPS PAPRSRSCSR/RLPAPPPLSRSG DRPQTAPSCPMWRARLPSCPGS AIPIPRPAWTRSAACCGAASRLR PFGSSSTSPQWM
12003	42371	A	12077	1054	1368	
12004	42372	A	12078	298	514	PNWFKHDVSKSESFSNMWIA KILKA/ARPA/TQCV/RNSCFL QCRHLSSVSASDLT*DNVQRQF CVSPHTES
12005	42373	A	12079	2	1613	
12006	42374	A	12080	2	106	

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12007	42375	A	12081	42	305	YNTVLPAKCLGSLICWMN*SH SDQNMQVSVERSRLRVLYAC CGLLCTAYPQHFAHRYVDKIP GYPSRAGTLTGLHPMQVRCR
12008	42376	A	12082	206	6038	
12009	42377	A	12083	1	4316	MQWEEAEKDPGSCVFRPPV ALVFPLHSKWTLVNSPPSSGDP YVPGRPQASGQLSLSPAPPYVL PGPGKIKAGNPNLSLTSYRSEV FCAHRHLHPPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPPVPPEYEVTVLRSQGT QLPPWSSSTWRLTDPSCPKHA AWLTDLASSKGPAAGGTGFS QPGTLTSTRNPLKKEKSPEDL KQIKIDLGKFSND
12010	42378	A	12084	393	991	
12011	42379	A	12085	324	438	
12012	42380	B	12086	528	598	
12013	42381	A	12087	52	574	
12014	42382	A	12088	1235	1366	
12015	42383	A	12089	1	1800	
12016	42384	A	12090	1	513	
12017	42385	A	12091	3	77	
12018	42386	A	12092	1923	2171	GAFCPTLLHGYQVLQWPGSSL PHKEGPAPALEGGHVPYRWI*A SADSQSTEAGRIGPASTG*RYYP GGEEHACCLPALLHS
12019	42387	A	12093	1	360	
12020	42388	B	12094	21	3636	
12021	42389	A	12095	1	936	
12022	42390	A	12096	1	599	
12023	42391	A	12097	1	248	VGKSSIVCRFVQDHFHDNISPTI GASFMTKTVLCGN/ELHKFLIW DTAGQER/SRQIPPLDPHENGNN GTIKVEKPTMQASRRCC
12024	42392	A	12098	1426	1572	
12025	42393	A	12099	367	513	
12026	42394	A	12100	31	661	APALPGCEHMMMAIRELKVCLL GDTGVGKSSIVCRFVQDHFHDH NISPTIGASFMTKTVPCENDFT KFLIWDTAGQERFYSLAPMY RGSGAAVIVYDFTEAGFHPL KKWVKRLKELGPEINIVMAIA GNKCDLSDIREVPLKGC*RNA ESIGAIIVVETSAKNAUNIE/LFQ GNSRPDPHPWTPHENGNNGTIK VEKPTMQASRRCC

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12027	42395	A	12101	1	487	MDKFLDITYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAEFYQRLISNFSKVSQYRIN VQESQAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRIINIVKMAIL.PKNW KKLL
12028	42396	A	12102	1	1563	
12029	42397	A	12103	1	1449	
12030	42398	A	12104	3	1606	
12031	42399	A	12105	2	402	
12032	42400	A	12106	172	329	
12033	42401	A	12107	1	720	
12034	42402	A	12108	97	206	
12035	42403	B	12109	1	1248	
12036	42404	A	12110	1	1419	
12037	42405	A	12111	1	1387	MDKFLDITYTLPRLNQEEVESLN RSITGSEIVAIINSLPTKKSPGPD GFTAEFYQRYKEELVLLLLKLF QSIEKEATLPSNFYEASIIIPKP GRDITTKENFRPISLMNDAKIL SKILANQIQHKKFVHDEVG FIPRMQGWFNHHSKNVIQYIN RTKDKNYMIIISIDAEKAFDKIQ QLFMLKTLKSLGIDGTYLKIIRA IYDKPTVKIILNGQKLEEFPLKT GTRQGCPSPLLFNIVLEVLR AIRQEKEIKGILLGKEEVKLSLF ADDMIVYLENPIVSAQNLLKLI SNVS*V*GYKINVQKSQAFLY TTNRQTESQIMSELPFTIASKRI KYLGIQFTRDVKDLFKENYKPL LNEIKEDTNKWKIPCSWVGRI NIVKMAILPKPPLIPRQTGSGV DLQQTPTDLQLSVLTVRRKINK QKGHPHOYLIWTSPPSKTKGRQ LLASNRKLDGE
12038	42406	B	12112	1	711	
12039	42407	A	12113	1694	4489	IYRFNAIPIKLPMTIFFTELEKTTL KFIWNQKRARIKAIRSQKNKS GGITLPDFKLYYKATVITKTAW YWYQNRDIDQWNRTEPSEITPH IYNYLIFDKPEKNEQWKGDSLF NKWCWENWLAICRKLKLDPFL TPYTKINSRWIKDLIVRPKTIKT LEENLGITIQDIGMGKDFMSKT PKAMATKAKIDKWDLIKLSF CTAKETTIRVNRQPTKWEKTF TYSSDKGLISRIYNELKQIYKKK TNNPIKKWAKDM

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12040	42408	A	12114	1	115	
12041	42409	A	12115	58	414	
12042	42410	A	12116	6	389	VMTTGTNSRVEPRVRGRVYKK KMDKKRQEKITEAKSKDKSQM DEEKTD/DEKPKLQVELEQEQYQ DKFKRLPLEILEFVQEAAMKGKI SEDSNHGSAPI.SLSSDPGKVNH KTPSSEELGGDIPGKEFDTP
12043	42411	B	12117	50	5137	
12044	42412	A	12118	1	1194	
12045	42413	A	12119	1	2559	
12046	42414	A	12120	3	406	
12047	42415	A	12121	119	423	TSSCSSEKFVITHLLKPTSVNSS KSFSLQCSIG/VQGAAIL.WRRR GSLVFRIFSFALVSPHLCGFIYL WSLTMVTYFSLNGGRSPCQA AAPQVNLGLLC
12048	42416	A	12122	3	597	ISASASDNVMSVSSPSCSCFF TLRYRLWKSEKPLYYSFVDPK VAYKKREMVVNQKQKHTG RVQSSNLEKKAPSSQFNWT EEDTDRTCFHGSHLQGVLLKEK GQSLLTKNLSLYWLSLTKQF*RCY GHHVPPYEEISYFLSNRNLNLF SFLLRIKTSFL/HEEVSLVEKVL FEEKIQCKERNQDPRKVRTTL
12049	42417	A	12123	1	883	
12050	42418	A	12124	23	362	FAFNMPPEPKIVPAP*KGSKKA VTKAQNKDGEKRLSRKESYS VYVYKVLKQVHPDGTGSSKG MGIMNSFVDDILERIAGEAFRL AHYNKRSTITSREIQTAVRLLLT REMYK
12051	42419	A	12125	2	405	
12052	42420	A	12126	1	398	LHSAMPEPAKSAPAPKKGSKK AVTKAQKDKGKKRKRSRKESY SIYVYKVLKQVHPDGTGSSKAM GIMNSFVNDIFERIAGEASRLAH YNNKRSTITLPREIQTAVRLLLP GELAKHAVSEGTKAVIKYTS A
12053	42421	A	12127	1	401	
12054	42422	B	12128	48	424	
12055	42423	A	12129	3	462	DAWVSGRLTELPSSCFFPIFRQ LLPVMPEPSKSAPAPKKGSKKA VTKAQKDKGKKRKRKRKESYS VYVYKVLKQVHPDGTGSSKAM GIMNSFVNDIFERIAGEASRLA HYNNKRSTITSREIQTAVRLLLP ELAKHAVSEGTKAVIKYTSK

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12056	42424	A	12130	74	504	FAFNMPEPAKSAPAPK/KGS/KKAVTKAQKQKDGKKRK/RSRQGRAYSVVYVKVLKQVHPDTHWLLRPWGMELLSFNDIFRNGIAGLRVSLGRl*QQGVSTIHLPGEDHDGPLRLACLPGGVWPSKAVF RGAPRPFNQVNTSV
12057	42425	A	12131	53	471	
12058	42426	A	12132	1	241	FKDTCRMTFIAALFTIAKTWNQPKCPTMWHIYTMEEYAAIK/SEFMSFVGTWMKLETITLSKL*QGQKTKHRMFSLIGGT
12059	42427	A	12133	1	244	
12060	42428	B	12134	1	2142	
12061	42429	A	12135	1	1962	
12062	42430	A	12136	3	393	IWMKLETILSKLSQG*KTKHRMFSLTGGNLTMRITLGHRLPSLPHRLRPCARLHLRCPWPWPPSR RRCARSTTPATPSTATSRWSS TPPTCTCLWPSTSTGTTWPWRTSSATSCACRTTKWSMPRS
12063	42431	A	12137	2	87	
12064	42432	A	12138	1	270	
12065	42433	C	12139	1	214	
12066	42434	A	12140	1	684	
12067	42435	C	12141	1	333	
12068	42436	A	12142	1	189	
12069	42437	A	12143	215	310	
12070	42438	A	12144	2	91	
12071	42439	C	12145	1	229	
12072	42440	A	12146	1	268	
12073	42441	A	12147	1	278	
12074	42442	A	12148	2	274	WMKLETILSKLSQRQKTIHHLFSLIALFTIAKKWKPPRYLSVDK WIKKLWY/HTYTMEEYSAFKK EAILPIAIWMLKDIMLSEISQ TWP
12075	42443	A	12149	2	136	
12076	42444	A	12150	2	95	
12077	42445	A	12151	1	233	
12078	42446	A	12152	377	484	
12079	42447	A	12153	2	91	
12080	42448	A	12154	1	891	
12081	42449	A	12155	1	1194	
12082	42450	A	12156	785	892	
12083	42451	A	12157	191	317	
12084	42452	A	12158	410	520	
12085	42453	A	12159	683	796	
12086	42454	A	12160	830	927	

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12087	42455	A	12161	18	539	PTDP*LGIVQKEVYKSCYYKDICT/RVCPVPAALFTIANTWNQPKCTSMIDWVKKMWHIYTMEEYAAIKTDEFMSFAGTWMKLETHILRKLSQGGQKTKHRMYSLIGGNLTMRTFGHSAGSHHTPGPIMRCGAGGGIALGEIPNVNDELMTGTANQHGTCTIPMQQNCTLCTCTLKLKV
12088	42456	A	12162	1	108	ASTAGVSYYVAQAGLKLGLSLSKCRDYRCEPPCPE*MSLYKV MAMARKAMSLYIYFFLDEFMYFAGTWMKLETHILSKLSQGGQKTKHRMFSL*GVSYYVAQAGLKLGLSLSKCRDYRCEPPCPE
12089	42457	A	12163	1	701	
12090	42458	A	12164	274	435	
12091	42459	A	12165	1	3658	
12092	42460	A	12166	749	856	
12093	42461	A	12167	1	598	
12094	42462	A	12168	538	664	
12095	42463	C	12169	1	873	
12096	42464	B	12170	177	325	
12097	42465	B	12171	1	1245	
12098	42466	A	12172	1	3313	
12099	42467	A	12173	1940	2060	
12100	42468	A	12174	1	1213	
12101	42469	B	12175	155	559	
12102	42470	A	12176	2	321	PAPRGGAYRGRQTSLSGGGLHPV*ASWLLCLPKQAWAM/VGRPPQASLLPCSLISDCCASNQRDSVGVPSEPCAGYNLLLCRFLSQSEKHSIRVGAVDCSCSYLAIL
12103	42471	A	12177	1	519	
12104	42472	A	12178	1	477	
12105	42473	A	12179	119	375	KRTQT*AIAGAPPPASLPPCSLISDCCASNE*GSVGIGPSKPGAGYNLLCHLISPSISPTSSPKSDTCPIADFSNKSPPDRSSAGDILLAMQSLGSMATFLILILPTREHGKFFHLFVSSFISLSSGL
12106	42474	B	12180	1	363	

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12107	42475	A	12181	1	1309	MAEGEEGTSYMAAGERVVAIA LIDGFRPLTLESTFFNSGSCSKL EQHSTYLGDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVPEP KQHGIGPKQKYRSTGPNRALR NNAAYLQFLIFGNLEKTKPWG KDSLLIKVFEEAVLWIECFAFIF YDARGVLIVVQVDSCKLEQHS TLSRALLIYKGFRCFRNHHQTG FSPAGANQRGPLAATLSGPGGE GQSAVARLTGEKKNHPGAQYA NRLSPRVGRFINAAGTTGFTG KRAVSATQLMDFADFGTTIKQ DFRLLGQTSVDRI.LQLSQGQA VKGNNQLLPVSLVKRKTTLAPNT QTASPRALADSLMQLARQVSR LESGHLISDCCASNQPDVSGVG PSEPGAGYNLVVRHFLSPSEKH SIRVGVTRFSRCRPSPLPLTQKG NSLTPCASQLRQCLALLRLR*R AISCPCSHW*KEKPPWRPIRKP LPARWPIH*CSWHD RFPD/CESG HLISDCCASNQPDVSGVGPSEP GAGYNLVVRHFLSPSEKHSIRV GVTRFSRCRPSPLPLTQKGNSLT PCASQLRQCLALLRLRH
12108	42476	B	12182	1	1335	
12109	42477	A	12183	1	1675	
12110	42478	B	12184	57	1530	
12111	42479	A	12185	1	1419	
12112	42480	A	12186	1	574	RVDDFVRQTRPSAQAAAEKM AANQPPPLMMKHSQTDLVSR KTRKILGVGGEDDDGEV/HRSP ISQALGTEIKFTIREPLGLTVWQ FVSAVLFSGIIMALAFPDQLY DAVFDGAQVTSKTPIRLYGGAL LSISLIMWNALYTAEKVIRWTL LTEACYFGVQFLVVTATLAETG LMSLGIRLTRSSRRGR
12113	42481	B	12187	79	387	
12114	42482	A	12188	1	908	
12115	42483	A	12189	2	70	
12116	42484	A	12190	1	1158	

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12117	42485	A	12191	2	611	FVSVPSVLLGLQFWRSERD/TA RLQ SARWRVERGR LKELLSRQ RPRRREEVVVGREVCRTMEV RASLQKIVSNGDEQLEKAMEEI LRDFEKRPSLLVDCQSSSEISD HSFGDIPASQTNKPSLQLILDPS NTEISTPRPSSPGLPEEDSVLF NKLTYLGC MKVSSPRNEVEAL RAMATMKSSSQYPPFVTL YVP
12118	42486	A	12192	3	497	
12119	42487	A	12193	1	804	
12120	42488	A	12194	1	1243	MAPVEHVADAGAFRLHAAL QDIGKNYITIREVVTEIRDKATR RRLAVLPYELRFKEPLPEYVRL VTEFSKKTGDYPSLSATDIQVL ALTYQLEAEFVGVSHLKQEPQ KVKVSSSIQHPETPLHISGFHLP YKPKPPQETEKGHSACEPENLE FSSFMFWRNPLPNIDHELQELLI DRGEDVPSEEEEEENG FEDRK DDSDDDGGGWITPSNIQIQQE LEQFDVPEDVRVWLA*PPDFA MQNVLLQMGLHVLAVNCMLI REARSYILRCHGCFKTTSDMSR VFCSHCGNKTLKKVSVTVSD GTLHMHFSRNPKVLNPRGLRY SLPTPKGGKYAINPHLTEDQRF PQLRLSQKARQKTNVFPDYIA GVSPFVENDISSRSATLQVRDS TLGAGRRRLNPNACRKKFVKK
12121	42489	C	12195	164	350	
12122	42490	A	12196	1	378	
12123	42491	B	12197	265	1539	
12124	42492	A	12198	1	2511	
12125	42493	A	12199	1	1077	
12126	42494	B	12200	38	1451	
12127	42495	A	12201	1	207	
12128	42496	A	12202	1	197	
12129	42497	A	12203	1	216	
12130	42498	A	12204	1	335	
12131	42499	A	12205	1	174	
12132	42500	A	12206	1	1309	
12133	42501	A	12207	1	1266	

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12134	42502	A	12208	1	590	IDRFDAPCGLEELEDHEDEFNE EDERAIEMYRRRLAEWKATK LKNKFGEVLEISGKDYVQEVTK AGEGLWVILHLVKQGIPLCALI NQNLGLARKFPDVKFIKAISTT CIPNYPDRNLPATILVYPGGIN GQFIGPLSVGGMNLTRDELEW KLSGSAIMTDLEENPKKPIEDV LLSSVRRSGPHEEGQRFGR
12135	42503	A	12209	291	416	SHYLKHAIEKLESEYDQISPPNSQ PDKENPVLST**SIQRRHMTLFLK MNLKILKYRKPEA*SQRLLVSK R*KHSIRGSGINLSFVPTGFQIVP FHLFETSLWL
12136	42504	A	12210	437	773	DYTTIGELKTAIQRSKINFCPIH SHSSHNAKSFVITVTLHRHLL *KVSYNKVQSLFIQCIGFSEAGA GVYNYCPPRQRRQPGDKPRW RWRGRGNRNCANSNHLQLYA
12137	42505	A	12211	1	1183	
12138	42506	A	12212	1	459	
12139	42507	A	12213	1	513	
12140	42508	A	12214	91	1168	
12141	42509	A	12215	323	429	
12142	42510	A	12216	870	1305	SPGLPHCWQPCRARSRGTDVW NVLVSGSGSGAYKEPAILVGPE NLTLTVHQTAVLECVATGNPRP IYVSWRLGWPPNPATKEQEQRA KTESQRKQPRDKARENQPKAA RPKRAAPKSHEAARKTNPTTAS TKRQAAPTNTPKESS
12143	42511	A	12217	1	2695	
12144	42512	A	12218	1	258	
12145	42513	A	12219	1	624	
12146	42514	A	12220	247	425	
12147	42515	A	12221	31	858	LLEIVNSSIQPEKQAGWLSQAV HGAPDGNRPMLEHPTSPGRG HLLAVLLALLGTTWAEVWPPQ LQEAPMAGALNRKESFLLLSL HNRLRSWVQPPAADMRRLDW SDSLAQLAQARAALCGIPTPSL ASGLWRTLQVGNWMLPAG LASFVEVSLWFAEGQRYRHA AGE*ARNATCTHYMQLVWATS SQLCGGRHLCSAGQAAIEAFVC AYSPRGNWEVNGKTIIVPYKKG AWGSLCTASVSSLLKAWDHAR GLLGGPRETLGKEPTEPWALK
12148	42516	A	12222	1	1519	
12149	42517	A	12223	1	789	

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12150	42518	A	12224	1	505	ATEDPGVAMGRRPARCYRYCK NKYPKSRFCRGVPDAKIRIFDL GRKKAKVDFEPLCGHMSVDEY EQLSSEALEAARICANKYMKVS CGKDGFIHVRRLHPFHVIRINK MLSCAGAD/RIHISKKWGFTKF NADEFEDMVAEKRLLIPDGC GV KYIPSRGPLDKWRALHS
12151	42519	A	12225	135	828	RFWVSPHGPAAPARCYRYCKN KPLPKVLRFCRGVPDAKIRIFD PGAERKQKVE*VFRFCGHMVS DEYNQLSS*ALEVAARNLCPIS TMVKS\CGKDGFIHVRRLHPF HVIPHQTRCCSCAGADRLQTG MRGAFGKFPQGTVARVHIGQVI MSIRTKLQNKHEV\DALRRAK YFKFPGRQ/KIHISKKWGFTKFN ADEFEDMVAEKRLLIPDGC GV YIPSRGPLDKWRALHS
12152	42520	A	12226	2	367	
12153	42521	A	12227	2	376	QTYSLRRAIPRHIIIVGFTKVEM KEKVLRAA/NKPIRLTVDSLAFET LQARKEGGPIFNILKEKNFQPRI SYPAKLSFISEGEIKSFDTKQML KDFVTTRPALQELLKEALNME RNNQYQPLQKHAKW
12154	42522	A	12228	1	714	
12155	42523	A	12229	122	939	YPGKQGLEWTSNKIQQTCS*GS SLLLEGKLTNRKDIHTKTPSVRH/ RSSKAKERVSVIEDQMNKRE EMFREKRVKRNEQSLQEIWEY VKRPNRLIGVPESDGDNGTKL ENTLQDIIQQYFPNLAQANIQI QEIQRMPPQRCSSRAAPRHIIVR FTKAEKMKMLRAARGKRV THKGKPIRLKVDVLAETLQARR EWGPIFNILKEKNFQPRISPAK LSFISKGEIKSFDTKEMLRDFVT TRPALQELLKEALNMERNRY QPQQKHAKL

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12156	42524	A	12230	1	1043	MGDFLHSTDNRNYLIKFWAKLS AKKTPANSSSPLGDHQPCHITK NLQIPEKWLIGLLLPLKADLLK EDAGTHCKEAKNLDERLDEWL TRINSVEKFLNDLMELKTMQAQ LHYACTSFSSQFDQLEERSVIE NQMSEMKREEKFRKRVKRNE QSLQKIWDYVVKRPNLRLTGVP SDWENGTKLENSLDIIEQENFP NLARQANIHIQEIQRMPQRYSS RRATPRHLIVRFTKFEMTEKMN RAAREKGQVTHKGKPIRITADI SAETLQARREWGPIFNILKEKN FQPRISYPAKLSFISEGEIKSFTD KQMLRDFVTTTRPTLQELLKEAL /NMERNNQYQLQKHAKL
12157	42525	B	12231	1	1275	
12158	42526	A	12232	1	1584	
12159	42527	B	12233	1	1023	
12160	42528	A	12234	1	2052	
12161	42529	A	12235	5160	6183	VSKHPQASAGDTQTNRVWSGP PANSRPAEAGPDC*KEN*QTE RTS/WQNPICMSPSSKTKEAKNL DKRLDEWLTRINSIEKTLNDLM ELNTMARKLRDACTSFSSQFDQ VEERSVIEDQMNMCKREEKF REKRIKRNKQSLQEIWDCKVRP NLRLIGVPESDGENGTKELENTL QDIIEQENFPNLARQVNIQIEIQ RTFQRYSSRRGTPRHIVRFTKV EIKEKILRAAREKGRVTHKGKPI RLTAVLLAETLQARREWGPIFN ILKEKNFQPRVSYPAKLSFISEG EVKSFTDKQMLRDFVTTTRPAL QELLKEALNMERNRNYQLLQK HATLSRPSMLG
12162	42530	A	12236	1	975	
12163	42531	A	12237	3	1186	
12164	42532	A	12238	1	906	
12165	42533	A	12239	1	1882	
12166	42534	A	12240	1	1394	

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12167	42535	A	12241	1	4935	MGPGARLALLAVLALGTGDP ERAAARGDTFSALTSVARALAP ERRLLGLLRRYLRGEEARLRDL TRCNDETTITYLLDKRLTLVLTAA NIPYSSPENGAKRRRQDAFPPIH YNTQDALLQYLSGVVGWAGPPA AQAHRDAPFVDSIAQVLLRTSG GSAEASGWSLRSRWAVGGATG SWVLSKGDRA SLGERVVTGWA TLNVGRSFAYCLTTCVQPPLDV GPRKEHAPRPPSLPTSTRQRGQ SEKSDANGRRRKQKT
12168	42536	B	12242	88	1014	
12169	42537	A	12243	686	1920	IKPQRWGKKQNRKTGNSKKQS ASPPPKERSSSPATEQSWTENDF DELREGEFRSSVITNFSSELKEHV VTHRKEAKNLEKKILDEWITRI TNAEKS LKDLMEKLT TAQELR NECTNLSNRCDQLEETVSAME DQINEMNEMKQEGKFREKRIK RNEQSFQEIGDYVVKRPNLHLI GVPESDGGQNGTKLENTLQDIH ENFPNLARQANIQIEIQRTPO RYSLRRA TPRIHVRFTKVEMK EKVMLSAAAREKGRVTHKGKPIR LTTADLSAETLQAQKTEWGPIF NILAKEKNFQPRISYPAKLSFIS EGEIKYFTDKQMLRDFCHHQG LPLKELLKEEALKHWKGTTRY QPLAKTLPKYRSTRQKVNKDT QELNSALHQADLIDYRTLHTK STEYTFQHHHTPIPKLTT
12170	42538	A	12244	1	633	
12171	42539	A	12245	3	109	
12172	42540	A	12246	2	575	
12173	42541	A	12247	1	237	
12174	42542	A	12248	1	1065	
12175	42543	A	12249	2	338	
12176	42544	A	12250	1	1319	
12177	42545	A	12251	1	744	MQKALCAAPDLGTFVTVLTPPP GAQIGSRRRERSKVPYIVRQCVE EIERRGMEEVGIYHVSGRVAA DIQALKAADFVN/NRTMHSSWE ESDELLKARDPHSGQHSRDG ALAKAGMADKKDMSVMMSET DMNAIAGTLKLYFRELEPLFT DEFYPSFAEGIDRLERVAEKEA VNKMSLHNLATVFGPTLLRPSE KESKL PANSPQITMTDSRSLV MSQVEVLLYFLRLEAIPALDSK RQSILFSTDV

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12178	42546	A	12252	1	507	
12179	42547	A	12253	1378	4280	STPMAVAGPLGRPWSTSPTRAS TSGASWKGRRARARSCAARAPL SRRSALPGPAGTPPPGVLRIEA AIPRTAAPMRTSPPARRTSPLAS PAACPQAPPTACSGTKAALPR RTRNSPSTAAVPPRRSAISGTGT ARLSCPRPPSWASARPGRSOPT MTRAPSMETQMARSEHLDTA ALQTGQRSSAGTKMGCPMLMT RPPHRTPTSAARAGAAGMRWSR EP*SPLK/RSELDLEKLEMRK WVLSGILASEETYL
12180	42548	A	12254	1	1109	MRTPYKTSPPMRMLYMTSLMTP TRHANEDAVDDIAYKDTVQDI TSEDAVYDIANEDVYDIANED ALQDIANEVAYDIANEDIVYD IANEDALYDITNEDAVYNIANE DAVYGIANEDAVYEFANKHAV YDIANEDTVQDICKEDAANK CYPPGFFPIRCRHEHLPVCIIDVI CSLIKCRHEHLPSSLIQDRLGA QASRRERSKVPIVIRQCVEIER RGMEEVGIYRMSGVAADIQAL KAAFNVSERCPAQDGMVWVA VVSAMRSQSAPRPHVTSFSVS FLHLSGSSRRPLHFRALSNNKD VSVMMSEMDVNAIAGSLKLYF RELPEPLFTDEFYPNFAEGIGEH WRPWPHGRLLHVHCCPQRL
12181	42549	A	12255	1351	4308	WKGRRARARSCAARAPLSRRSA LPGPAGTPPPGVLRIEAAPRT AAPMRTSPPARRTSPLASPAAC PQAPPTACSGTKAALPRTRN SPSTAAVPPRRSAISGTGTARLS CPRPPSWASARPGRSOPTMARA PSMETQMARSEHLDTAALQT GQRSSAGTKMGCPMLMTRPPH RPTSAARAGAAGMRWSREPWS PLK/RSELDLEKLEMRK WVLS GILASEETYL SHLEALLPMKPL KAAATTSQPVLTQS
12182	42550	B	12256	1	1017	
12183	42551	A	12257	2310	2834	EEKYNNMQTRLRRAEDVFPVIG VAAHKGGVYKTSVSVHLAQDL ALKGLRVLLVEGNDPQGTASM YHGWWPDLHIHAEDTLPPYL MLRLAIETVAHDYDVIVIDSAP NLGIGTINVVCAADVLIPTPAE LFDYTSALQFFDMLRDLKKNV DLKGFEPDVRILLTKYSSNSNGW

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12184	42552	A	12258	106	108	NFLFVLRRLQWVVGGLCW*AAE LNKVCL
12185	42553	A	12259	1	901	
12186	42554	A	12260	23	482	KPRELGPISPVWLPPDRLPERPQ RRRPSGVDPGSWLWGS GCGSTG CSALMSCSCGSTPLLSLALKVT PGGVVLGAPSGSEDGS*PNRKAC GSEMEICLTTRGVWGPEVALG VGGGLQQSCRAPCGGLPKLLRS WSQSSLSPNSPGRGASSGEAA
12187	42555	A	12261	1	1938	
12188	42556	A	12262	1	2235	
12189	42557	A	12263	43	1827	THVRLAGARASPRAPRLRPRKP RPQGLPCLPGLRRARLEGGARG RADEMFLPLPAAGR VVVRRL AVVRSGRSLSLADMTKGLVL GIYSKEKEDDVPQFTSAGENFD KLLAGKLRRETLNISGPPLKAGK TRTFYGLHQDFPSVVLVGLGK KAAGIDEQENWHEGKENIRAA VAAQCRIQDLELSSVEVDPGCG DAQAAAEGAVLGLYEYDDLK QKKKMAVS AKLYGSGDQEA W QKGVL FASGQNLARQLMETPA NEMTPTRF AEIIEKNLKSASSKT EVHIRPKSWIEEQAMGSFLSVA KGSDEPPVFLEIHYKGSPNANE PPLVFVGKGITFDSSGISIKASA NMDLMRADMGGAATICS AIVS AAKLNL PINIIGLAPL CENMPSG KANKPGDVVR AKNGKTIQVDN TDAIEGRLLADALCYAHTFNP KVLNAAATLGAMDVALGSGA TGVFTNSSWLWNKLFASMET GDRV*RMPLFDHYTRQVVD CQLADIVNNIGKYRSAGACTAA AFVKEFVTHRKWAHLDIAGVM TNKDEVPQSTGKA*LGPRTRL IEFLLRFSQDNCLVQILKNVFH SVLNWTVELKKVFE
12190	42558	A	12264	1	405	GIRSAEVGKHLAHILLSRQQGR RPVTLIGFSLGARVIYFCLQEM AQEKDCQGIIDVILLGAPVEGE AKHWASL SGRVVS GRIINGYCR GDWLLSFVYRTSSVQLRVAGL QPVLLQDRRVENVDLTSVVS G
12191	42559	A	12265	1	1072	
12192	42560	A	12266	105	514	

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12193	42561	A	12267	44	872	NARPWWVRLGILLIEFRRRGSLCRE RAREMEMGRRRIHLELRNRTSPD VKELVLDNSRSNEGKLEGLTDE FEELEFLSTINVGLTSLANLPKL NKLKLELSDNRVSGGLEVL EKCPNLPHLI*GGNKIKDLSTIE PLEKLENLKSLDLFNCEVTNLN DYRENVFKLLPQLTYLDGYDR DDKEAPDSDAEGYVEGLDDEE EDEDEEEYDEDAQVVEDEEDE DEEEEEEEDVSGEEEEEDEKGY NDGEVDDEEDEELGEEERGQ KRKREPDEGEDDDD
12194	42562	A	12268	1	388	KRGAAMDGRVQLIKALLALPIR PATRRWRNPFPFETFDGDTDR LPEFIEQTGSYMFVDENTFSSDA LKTALPQSLPSIASHRQTAAPS DLDSPRRYLGWQSLDSDSDS WPPPKGSVTFSETYFLPTP
12195	42563	A	12269	1	127	
12196	42564	A	12270	5	434	ISRLYLDGLAGPHTASAAEAS DRSEDLRWTVCAQLIQUALLAL PIRPATRRWRNPFPFETFDGDT DRLPEFIVQTCYSYMFVDENTFS SDALKVTFITRLTGPAQWVI PYIKKESPLLNDYRGFLAEMKR VFGWEDDED
12197	42565	A	12271	515	1137	
12198	42566	A	12272	1	762	
12199	42567	A	12273	1	468	
12200	42568	A	12274	2716	3411	KREEETKKKSKREMEVVKKKQ CTYSFKSQGKFLSTHARQFSIGS QPISASQTVVEIMKSILTLQSQV NSLAAVTLQNR*GLDLLTAKEG GLCTFLGEECCFYTNQSGIA*D ATQRLQEKASEIRRLSNSYTNL WSWATWLLPFLGPVAAILLLL AFGPRIFNLLVKFVWSRIEAIKL QMVLQIEPQMSSNTNFRYRGLD *PAGTSPGLESSLKDDTTAKPL LRPYAGSS
12201	42569	A	12275	8312	9221	
12202	42570	A	12276	74	471	
12203	42571	A	12277	4043	4159	LFCQSGFHSLLTPSTATCSTIR* VATSRRLRPVFTCRRS
12204	42572	A	12278	1	1332	
12205	42573	B	12279	29	1316	
12206	42574	A	12280	1	580	
12207	42575	A	12281	2	710	
12208	42576	A	12282	1	1559	
12209	42577	A	12283	1179	1490	

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12210	42578	A	12284	2	313	
12211	42579	A	12285	599	743	GALART*PPQQRWVSCPR/GVP/ GAL*REFTMFLSLQAENSIDFVS RELCAHSIRKLQAHVLJK*VFI K
12212	42580	A	12286	208	398	
12213	42581	A	12287	716	1069	
12214	42582	C	12288	326	577	
12215	42583	A	12289	188	590	
12216	42584	A	12290	860	1121	VPFLTSWVNVGFKSSALHSSAL LQFWLTLWE*LPAWARCCCL PNGSFWGPRSSRLDVAWERPV APGWREVSPLLSELWTAASGP YG
12217	42585	B	12291	1	1614	
12218	42586	B	12292	1	1080	
12219	42587	A	12293	3	219	
12220	42588	A	12294	890	1094	VESGTHLGQYKIYFGFLYQKKF SLQSHGYILFGCPQYW/ITSDC PSIPCMWYSRTL*VTWSKKQVT SE
12221	42589	C	12295	1	3912	
12222	42590	A	12296	881	1151	
12223	42591	A	12297	1	1323	
12224	42592	A	12298	1817	2284	VWDGSILYQKLGALDGLSS*VI PLASSLQSLQYPLPSSFIQRLNT YSVKGLRSWTVNEDRVDAVSS GGIWLQVEASLVLY*MLYFSIIT LLIILGLVHVNFILDSSSELITD KLCGGLGFTLYTYSKLI*SDVTF PRAFASTQTSMLTKYTVE
12225	42593	A	12299	1	1109	
12226	42594	A	12300	1	367	
12227	42595	A	12301	1	531	
12228	42596	C	12302	1371	1746	
12229	42597	A	12303	1	645	
12230	42598	C	12304	387	680	
12231	42599	A	12305	655	2498	
12232	42600	A	12306	1	528	ENLGNTQDTGMGKDFMTETP KAMTTKAKIDKRDILKLSFCT AKETTIRVNRQPTWEWEIFAVY PSDKGPISRIYKQLKQIYKKKSN NPIKKWAKNNRHRFSKEDIYV AKKHMEKSSSLVIRKMHKTT VGYHLMPPVRMAIHKSGNNRC WRGCGE/C*WEGQLVQPLWKT VWQ
12233	42601	A	12307	1	1359	

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12234	42602	A	12308	1968	2648	TQTNLQEQKNKQLHQKVGKGYE QTLKRRHLCSQQTHMQPTDT WKNAAHQLAIREMQIKTTMRY HLTPLRMAIHKSGNNSCWRGC GEIGTLLHCWWDCCLVQPLWK TVWRFLKDLESEIPFDLAIPLLCI YPKDYTSFCYKDTCTCMFIAAL FTIAKTWN*PKCSSVIDWKKM WHIY/TTMEYYGAIKRNKIMSF AGTWMKLDAILSKLTQKQKT KLRMFLLSIRS
12235	42603	A	12309	1	403	
12236	42604	A	12310	3	264	FFYAHIMFIAALFTIAKTWNQS KCTSMIDWIKK/MWHIHTMEY YAAIKR/RGFMFSFTRTWKLEA IILSKLTQEQTKAHHMFSLIRGS
12237	42605	A	12311	79	432	
12238	42606	A	12312	1	933	
12239	42607	A	12313	70	675	
12240	42608	A	12314	1	339	
12241	42609	A	12315	3	422	
12242	42610	A	12316	1	471	
12243	42611	A	12317	1	963	
12244	42612	A	12318	375	542	ENDKARRSDTPSML*WVEGMK *SVKAPHTLHLASDYVLEPWG GESATFIPASWDC
12245	42613	C	12319	1	2148	
12246	42614	A	12320	1	1881	
12247	42615	B	12321	1	1074	
12248	42616	C	12322	143	439	
12249	42617	C	12323	123	362	
12250	42618	A	12324	474	603	NHKNPRRKPRQYHSGHRHGQG LHV*NTKNNGNKSQNGQMGSN
12251	42619	A	12325	5169	5756	CPSLPPPHGKPAACPRSPPGGC CTPRSARTVPRGLSENSQTKCH SADLPPEGPRVFWTPPGTGAAP APPAPAPGPARCGPRRCHAWPP QRSSGAGRSPPPRHFAEFLKM VAFLRILILRAVSLRLSLDLLEIS* G*RP*GPSWGGPPQSTPSAASA ASKTSSPRRWSTPAWAFLARA HPRWVAPSTAAQCTAAP

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12252	42620	A	12326	21	98	ESWLVLGRRKAGRLIGACGFEP PHFLTLDLEMHDRDSCPLDCKVY VGNLGNNGNKTELEAFGYYG PLRSVWVARNPPGFAFVEFEDP RDAADA VRELDGRTL\CG\CRV RV\ELVRMGK\RSRNRGPPPS\ WRRRPRDDYRR\RSPPPR\RRSP R\RRSFS\RSRSRSL*ERVGWC WAGGKREDSSSERVDLSRRIF
12253	42621	A	12327	919	1043	
12254	42622	A	12328	460	657	CFSPGMWQKTHSRKHSFGAICP INPVGECVLRKIKQLD*ITWINA I*LPLRDGLFYFLNFPFCCRG
12255	42623	A	12329	1	2235	
12256	42624	A	12330	1	255	
12257	42625	A	12331	2	429	CRADLNSRIDDFVNPNSVAVSG ASYAVAAVTMAHYKAADSKR EQFRKYFEKSGVLDLTKVLV ALYEEPE\KLNSALDFLKHHLG AATPENPEIELLRLEAEMKEK YEAIVEENKKLAKLAQYEP\P QEEKRAELGFFSV
12258	42626	A	12332	670	860	
12259	42627	A	12333	2	450	VNKAGGLIYQLDSYAP\RAEAE KTFYSYPLDLLKLHDERVLVAF GQRDGI RVGHAVLAINGMDVN GRYTADGKEVLEYLGNPANY VSIIRFGPRLTSNEKLMLASMF HS\KFVVLADP\RQAGIDSLLRK IYEIYSDFAKLPFYSEMP
12260	42628	A	12334	1	2034	
12261	42629	A	12335	1	324	
12262	42630	A	12336	2	694	FGTRGKAAMAIFSVYVVKAG GLIYQLDSYAPRAEAEKTFSSP LDLLKLHDERVLVAFGQRDGI RVGHAVLAINGMDVNGRYTA DGKEVLEYLGNPANYPVSIIRFG RPR\TSNEKLMLASMFHSLFAI GSQLSP\EQSSG\IEMLETDTFK LHCYQTLTGK\VV\ADP\RQ AGIDSLLRKIYEIYSDFA\KNPF IYSEMP\IRCELFQNLKLALEV AEKAGTFGPGS
12263	42631	A	12337	2	1658	

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12264	42632	A	12338	3	997	VQKPNRQWRLVQDLRIINEAV VPLYQAVRNPTLLSQIPEETG WFTVLDLKDALFCIAVHPDSQF LLAFEDPLNPTSQLTWTVPQG FRDSPHLFGQALADLSQFSYL DTLVLRVYVDDLLAAPSETLCH QATQVLLNFLATCGYKVSCLK AQICSQQVKYLGKLSKGTRAL SEERIQLAYPHPKTRKQLRGL LGITGFCQIWIPRYSEIARPLHTL IKKTQKANTHLVRWTPEAEAA FQVLKKALTQAPVLSLPTGQDF VSLYVTEKTGIALGVLTQHYGE ERNs*LPTEYLSNIRKPLGDYV WLYRNLKRQSYTARVIRKER
12265	42633	A	12339	3	421	
12266	42634	A	12340	3	4804	KRLNIIQKTEVAFSEAVWMQ PSVLLDDLADIAGLPAVPEHE HSPDAVQSQRALAHNDMIKE FISMGSLVALIATSQSQSLHPL LVSAQGVHIFQCVQHIPPNNQE QRCEILCNVINKLDCDINKFT DLDLQHVAKETGGFVARDFTV LVDRAIHSRLSRQSISTREKLVL TTLDFOKALRGFLPASLRSVNL HKPRDLGWDKIGGLHEVRQIL MDTIQLPAKYPELFANLPIRQRT GILLYGPPGTGKTL
12267	42635	A	12341	1	2223	
12268	42636	A	12342	1	3864	MQWEEAEKDPSGSCVFQRPPV ALVFPLHSKWTLVNSPPSSGDP YVGRPAQSGQLSLSPAPPYVL PGPGKIKQAGNPNLSIYRSEV FCAHRHLHPQLVCARGHIGSA HLSVDRGSLIWEVLESTVWART NEWSPVTRTVLISALASTHIPQP CESRPVPVPEYEVTVLRSQGT QLPPWSSSTSWRLTDPSCPKHA AWLTDLASSKGPAAGGTGSFS QPGLTSTRINPLKKEKSPEDL KQIKIDLGKFSND

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12269	42637	A	12343	204	963	DCACTFHCSRATKIVKDLKAQ GLVKPCNSPCSTPILGVQKPNG QWRLVQDLRIIDEVVVVYVDDL LLAARSKTLCHQATQALLNFLI TCDYKVKPKAQLCSQKVVKYL GLKLSKGTRVLSEERIQPIAYP HPKTPKQLRGFLGITGFCRIWIP RYSEIARPLYTLIKKTQKADTH LVEWTPAEVAFQALKEALTQ APVLSLPMGQDVPLYVTEKTI ALGVLGVLTVQVRG/LSLQPMAY LSKEMDVVAKGWPH
12270	42638	A	12344	1	1178	MPESPTLLGRDILAKAGAIHIL NIGEGTPVCCPLLKEGINPEVW ATEGQYGRAKNAHPVQVKLK DSASFYQRYPLRPEAQQLGQ KIVKDLKVQGLVKTCNSPCDTP ILGVQKPNGQWRLVQDLRIIDE AIVPLYPAPNPYTLLSQIPEEA ELFTVLDLKDAFFCIPVHPESQF LFAFEDPSIPMSQLTWTVLPQG FRDSPHLFHHTLAQDLSQFSYL DTLVLCPLRNQOECHQATQV LLNVLATCGYKVKSKQAQLCS QQVKYLGVLKSKGTRAL/QQ*R TDRT*LSSTNSCNLRHSRGPSSRG SLD*SQPOLVY*WKFFCRKRTS KRGVCSGQ**WNT*KKSPHSRN *CSAGGTNSPPSGTRIRRRKGL IRIYMLPLILSAPYDHLH
12271	42639	A	12345	1	841	
12272	42640	A	12346	3	1428	
12273	42641	A	12347	2	268	
12274	42642	A	12348	1	897	
12275	42643	B	12349	1	1650	
12276	42644	A	12350	232	1002	TPGSTVHAPEADQGLQKIVKDL KAQGLVKPCNSPCSTPILGVQK PNGQWRLVQDLRIIDEVVVVYV DDLLAARSKTLCHQATQALL NFLITCDYKVKPKAQLCSQKV KYLGLKLSKGTRVLSEERIQPIP AYPHKTPKQLRGFLGITGFCRI WIPRYSEIARPLYTLIKKTQKAD THLVEWTPAEVAFQALKEAL TQAPVLSLPMGQDVPLYVTEK TGIALGVLGVLTVQVRG/LSLQ MAYLSKEMDVVAKGWPH
12277	42645	A	12351	1	2217	

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12278	42646	A	12352	1	6530	MWGSDDLRLAGAGGGGAADVTA FTNARDCLHLPRRLVAQLHLL QNQAIEVVWSHQPAFLSWVEG RHFSQDQGENVAEINRQVGKQL GLSNGGQELHVAVSLEQHLLDQI RIVFPKAIFFVWVDQQTIFYFIQI VALIPAASYGRLETDTKLLIQPK TRRAKENTFSKADAIEYKKLHS YGRDQKGGMMKELQTKQLQSN TVGITESNENESEIPVDSSSVAS LWTMIGSHFSQSEKKQETSWG LTEINAFKNMQSKVVP
12279	42647	A	12353	1734	4349	MPNRACFQCGLQGHEKDKCPS RKPVQCLTIESQEVNCLLDAGA AFSVLLSCPGQLSSRSVTIRGVL GQPVTRYFFQPLSCDWGALPFS HAFIMPESLTPLLEIEILVKAG AIIHLNIGEGTPICRLLFEEGISPE VWATEGQYQGAKNHAFVQVK LKDSTSPYQRYPLRPEAQQR LQKIVKDLKAQGLVKPYSSPCN TPH.GVQKPKRQWRLVQDLRII NEAVFPLYPAPSPYTLSSQPEE AEWFTVLDLKDAFFCIPVHPDS QFLFAFEDPSNPTSQLTWTVL QGFDRSPHLFGQALAQDLSQFS YLDTPVLQCMDLLLAARSET LCHQATQALLNFLTTCGYKVS KPKAQLCSQVVKCLGLKLSKV TRALSEERIQPIIAYPYPKTLKQ LRGLGITGFCRIWIPRYGKIAR PLYTLIKETQKANTHLVRWTP AEAFAHFKKALMQAPVLSLL TGQDFSSYVTNKQTKKKK/T* IALRVLALV*GTSLOPVAYL/SK EIDVVAKGQPHCLRVVAVAV LVSEAVKIIQGRNLTWVTS NGILTAKGDLWLSNHLKYQ ALLLEGPMLRLCTCAALNLDTF LPHNEEKIEHNCQVIAQTYAT RGDHLVPLTDPNPNLYTDGRS FVEKGLQKVGAVVSDNGILES NPLTPGTAQLAKLTRALELGE GKRVNIYTDSKYAYLVLHAHA
12280	42648	A	12354	5	138	
12281	42649	A	12355	1	909	
12282	42650	A	12356	3	245	
12283	42651	A	12357	1	1080	

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12284	42652	A	12358	3	955	VPRKSVHSGDAEYHKVLEKEA SDSRENKVGTTWLQILSGSFAS RVTEHITQPLQESVSLWISSEQN IPPKFMGRLNKLKATYKRKYS AAKSKVEKKKKEKVFATVTKP VGGDKNGGTRVVQTRIKLPR YHPTEDVPRKIVEPPQKNLFSQ HVRKTAKTALPPGTILILTG/RH RGKRVVFLKQLASGLVITAP LVLNRVPLRRTHQKFVIATSTKI DISNVKIPKKKDKTPLLTDAYL \KKKKLRKPR/HPRKGEIFDTVK RGNMRITEQRTIDQKAVDSQIL PKIKAIQA/LQGYLRILCLL*RN GIYPHKLVF
12285	42653	A	12359	1	555	
12286	42654	A	12360	1	300	
12287	42655	A	12361	1	588	
12288	42656	A	12362	1	264	
12289	42657	A	12363	1	870	
12290	42658	C	12364	239	400	
12291	42659	A	12365	9	98	SWKPSFSAN*HRNRKPNTTCSH SQVGVDL
12292	42660	A	12366	9	81	
12293	42661	A	12367	3	169	
12294	42662	A	12368	134	481	GCCGGTIKNSFSFPLPNWPRFV MFPSLCVLIVETCETWICTLIVQ LPLMSNMRLCIFCSCVSLLRM MVSSFVHVHDHKVKSHPSP/G NLRKSKEASPSPKTSKVGKLTQV PSVCG
12295	42663	A	12369	41	388	SYGQMMKCPQTFPPSPGYGAG VFSSDKIGQMTFMERT*RMSCK EAAQDHTAREKEKVELKFPSLP FRRKELL*PCTWLGSPISLVTL D FPWPQSGRLSMPVLWTCLPG SLEIG
12296	42664	B	12370	1	909	
12297	42665	C	12371	295	2025	
12298	42666	A	12372	14	260	
12299	42667	A	12373	1	142	TCTCVFIAALFTIAKTWN*SKCP SMRDWIKKNVAHTHHGILCSH KKE
12300	42668	A	12374	1	395	

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12301	42669	A	12375	2	976	REHLAEGMAVGTASADLNISA CWLRRQQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFQFK EQAAIFAVLQPPLVIPRKIGSGV DLEQTPADLQKRGLTVTRKTN KQKAIASSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPPKDHNSPAR EQNWMEFDELTEVGFRRW VITNSSELKKHVLTCCKEAKNL EKRDMDDEAGNHHSQQTNTGTE NQTPHVLTHKWELNNENTRTRI YKKHGAAICLASGIYHSVDLPF WGLDLFPWDEDSGSTILSGSG QWPSSHSSTRQCTSVDSVWGL
12302	42670	B	12376	1	111	
12303	42671	A	12377	34	346	
12304	42672	A	12378	1	585	
12305	42673	A	12379	3	14703	
12306	42674	A	12380	1	636	
12307	42675	A	12381	1	1626	
12308	42676	A	12382	1	3246	
12309	42677	C	12383	62	202	
12310	42678	A	12384	1	286	
12311	42679	A	12386	1	1176	
12312	42680	C	12387	1	942	
12313	42681	A	12388	785	892	
12314	42682	A	12389	2	91	
12315	42683	A	12390	1	708	
12316	42684	A	12391	3	96	TWMKLETIILSKL*QRQKTKHR MFLIGGN
12317	42685	B	12392	1	1954	
12318	42686	A	12393	1550	1830	DTISHQLEWQSLKSQETTALLTI AKTWNQPKCPSMIGWIKMMW HIYTMEEYAAIK/SDEFMCFAW TWMKLETIILSKLSQEHKTKHH MFSLTSGS
12319	42687	A	12394	3	553	
12320	42688	A	12395	1	1428	
12321	42689	A	12396	642	753	
12322	42690	B	12397	1	759	
12323	42691	B	12398	1	900	
12324	42692	A	12399	623	775	
12325	42693	A	12400	992	1156	
12326	42694	A	12401	86	349	

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12327	42695	A	12402	1	2521	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIQMGQWFRIRKSI NIVQHINRTNDKNHMIISDAEK AFDKIQQRFMLKTLNKLIGDGT YLKIIIRAIYDKSTANIVLNGQKL EAFPLKTGTROGCLPLLFNIV LEVLAIRQEKEIKGIQLRKEE IKLSLFADDMIVHLENPIVSAQN LLKLIDNFSKVSGYKINVQKSQ AFLYTNRRQTESQIMSELPFTIA SERIKYLGQLTRDVKDLFKEN YKPLLNDIKEDTNKWNTPRS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEKTTLKFIWN QKGARIAKSILYRFNAQELEKT TLKFIWNQKGARIAKSILSQKN KAGGITLPDFKLYYKATVIKTA WYWYQNRDIDQWNRTEPSEIM PHIYNHLIFDKPKDKKKWGNDS LFNKWCWENWLAICRKLKLDLP FLIPYTKINSRWIKDLNVRPKTI KTLEENLGNITQDIAMGKDFMS KTPKAMATKAKIDKWLINLK SFCTAKETTIRVNRQPIEWEIF AIYSSDKGRISRIYNELKQIYKK KTNNPIKKWAKDMNRHFSKED IYAARKHMKKCSSSLAIREMHI KTTMRHHLTSVRMAHKKLGN DWCWRGCGEIGRLLHCWWDG KLWQPLWKSVMRFLRDLELET FPDPASPLLGIIYQKE\YKSCYYK DICT/RVCVPAALFTIANTWNQP
12328	42696	B	12403	80	5612	
12329	42697	B	12404	68	505	
12330	42698	A	12405	1	471	
12331	42699	A	12406	194	430	IAIMRLLQISIILSSCLREVKSM QAYRKALRKLKADVKRYQKS LVVQKRS*ER*SLVLILILPARTF QSYLAPIC
12332	42700	A	12407	1	546	
12333	42701	A	12408	2	418	
12334	42702	A	12409	302	746	ETSHQVMDRSNPVKPALDYFS NRLVNYQISVKCSNQFKLEVCL LNAENKVVDNQAGTQGLQKV LGNLWPPYLMHEHPAYLYS WEDGDCFTPKALDPLPACDLC DQLHLRSRQGGVCGCDPCEQ LLLLAVSQLQAPAIIDSAAGRPV
12335	42703	A	12410	83	552	
12336	42704	A	12411	1	459	
12337	42705	A	12412	34	588	

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12338	42706	A	12413	1	466	
12339	42707	A	12414	950	1230	CSWHDRFPDWKAGRILPISEPPS NRIFACWGKPAWTACCN/FSQG QAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQ VSRLESGQDFADFGTTIKQDFR LLGQTSVDRLQLSQGQAVKG NQLLPVSLVKRKTTLAPNTQTA SPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSV DRLLQLSQGQAVKGNQLLPVS LVKRKTTLAPNTQTASPRALAD SLMQLARQVSRLESGQDFADF GTTIKQDFRLLGQTSVDRLQL SQGQAVKGNQLLPVSLVKRKT TLAPNTQTASPRALADSLMQLA RQVSRLESGQ
12340	42708	A	12415	497	847	
12341	42709	A	12416	1	337	MGVVPEELFLEELNLSGLKWD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQHPEFAPP SHGD
12342	42710	A	12417	716	961	
12343	42711	A	12418	1	1218	
12344	42712	A	12419	1	1104	
12345	42713	A	12420	548	1078	
12346	42714	B	12421	83	345	
12347	42715	A	12422	1	681	
12348	42716	A	12423	1	1431	
12349	42717	A	12424	566	871	
12350	42718	A	12425	145	980	
12351	42719	A	12426	2	702	
12352	42720	B	12427	1	1156	
12353	42721	A	12428	188	584	
12354	42722	A	12429	1	1194	

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12355	42723	A	12430	170	1855	LLEGKLTNRKDIPHQNICTSPS SKTKGILPISEPPSNRIFACWGK PAWTACCN/FSQQQAVKGNQL LPVSLVKKRTTLAPNTQTASPR ALADSLMQLARQVSRLESQGD FADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLV KKRTTLAPNTQTASPRALADSL MQLARQVSRLESQGINHTPNSF HIGAGGSWCLSESPPVVLNYK YPLVCGYTDGNAEVSKFGNFFL DLSRTRCLAEGNYTSGDNHTLR DPHYVEDKGHKYLVEFANTGT ENGYQGEESLFNKAYYGGGTN FFRKESQKLQSQAKKRDAELA NGALGIIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKW YLFTDSRSGSKMTIDGINSNDIY MLGYVNSLTGPYKPLNKTGL VLQMGDLDPNDVTFTYSHFAPV QAKGNVNVITSYMTNRRGFED KKATFAPSFLMNIKGNKTSVVK NSIRREGFCFRNHHQTGFSPA GANQRGPLAATLSGPGGEGQS AVARLTGEKKNHPGAQYANRL SPRVGRFINAAGITGFPTGKRA GFCFRNHHQTGFSPAGANQR GPLAATLSGPGGEGQSAVARLT GEKKNHPGAQYANRLSPRVGR FINAAGITGFPTGKRAV
12356	42724	A	12431	851	2237	
12357	42725	A	12432	2	2346	
12358	42726	B	12433	329	479	
12359	42727	B	12434	656	2404	
12360	42728	B	12435	486	834	
12361	42729	A	12436	1	693	
12362	42730	A	12437	1	114	
12363	42731	A	12438	152	391	AGGWALPSLGLPSWTSRCPWR RGSAGLLLEASVPVQQ*PKLLD RLSRRWPGEHPRPARVRSCM ALGPRRLGVLCOEPS
12364	42732	A	12439	1	1707	
12365	42733	A	12440	1	897	
12366	42734	A	12441	36	420	
12367	42735	A	12442	2	217	
12368	42736	A	12443	1	903	
12369	42737	A	12444	1	1626	
12370	42738	B	12445	107	757	

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12371	42739	A	12446	1	1655	MGTVPRSAQGETWVWLCEHIIGG ERSFTEYSLSCHRIESSTSSIKLEL GGNNVEPLESSRVFDS TVQNEE ADAVSTGEEGVTHEGTQGGKV IPQMHHMGSGLQPKSFSQNRSQV NNDMIVTDNNGAVKFPQLCKF CDVRFSTCDNQKSCMSNCITSI CEKQPEVCVAVCWMSEIECTN VMYSPLPCKFLHLSPIEVLPIRS PVNQSGRCKIRHIGSNRLQRS TCQNTGWESAHVMTKTPGFREY NTSNPDLLL VIFQVTGISLLPPL GVAISVIIIIFYCYRVNRQQLSS TWTGKTRKLMFSEHCAIILE DDRSDISSTCANNINHNTELLPI ELDTLVGKGRFAEVYKAKLKQ NTSEQ*DSGQFKILFPIEYAS WKTEKDIFSDINLKHENILQFLT AEERKTELKGQYWLITAFHAK GNLQEYLTRHIVISWEDLRKLGS SLARGIAHLHSDHTPCGRPKMP IVHRDLKSSNILVKNDLTCCCL DFGLSLRLDPTLSVDDLANSQG CYEVCSSGRFLVTIFKGNRLRE RTEKNTRITPRDWVYEWLW
12372	42740	A	12447	1555	3277	RAAGSAMGRGLRGLWPLHIV LWTRIASTIPPHVQKSVNNDMI VTDNNGAVKFPQLCKFCDVRF STCDNQKSCMSNCITSICEKQ EVCVAVVRKNNDENITLETVCH DPKLPYHDFILEDAAAPKCMK EKKKPGETTFMCSSEDCNDN IIFSEEYNTSNPDLLL VIFQVTGI SLLPPLGVAISVIIIIFYCYRVNRQ QKLSSTWETGKTRKLMFSEH CAIILEDSDISSTCANNINHN TELLPIELDTLVGKGRFAEVYK AKLKQNTSEQFETVAVKIFPYE EYASWKTEKDIFSDINLKHENIL QFLTAEERKTELKGQYWLITAF HAKGNLQEYLTRHIVISWEDLR KLGSLSARGIAHLHSDHTPCGR PKMPVIVHRDLNSSLNVLKNDLT CCLCDFGLSLRLDPTLSVDDL NSGQVGTARYMAPEVLESRMN LENAESFKHTDVYSMALVLEW MTSRCNALGEVKDYEPFPGSK VREHPCVESMKDNVLRDRGRP EIPSWLNLHQGIQMVCELTTEC CDHDPYARLTAQCVAERFSELE HLDRLSGRSCSEKIPEDGSLNT

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12373	42741	A	12448	3	1354	
12374	42742	A	12449	1	168	
12375	42743	A	12450	2	147	
12376	42744	A	12451	3	523	LQFFRRSEVKMKNHLLFWGVL AVFIKAVHVKAQEDERIVLVN KCKCARITSRIIRSEDPNEDIVE RNIRIVPLNNRENISDPTSPLR TRFVYVHLSDLCKK\CDPTEVEL DNQIVTATQSNICGWMVTPQS TCYTLSTGKNKCYTAVVPLVYVG GETKMYETALTPDACYPD
12377	42745	A	12452	3	274	
12378	42746	A	12453	1	120	
12379	42747	A	12454	119	461	PVPQDLQA AVLGRITLALFKIAY KTGTLQVCKRLLLSFVCL/CPA PRGRQASLSCGGLHPVRASWLL CLPKQAWAMAGAPPPAWLPCC SLISDCCASNQRDSVGVPRSEPG VGYSLV
12380	42748	A	12455	2	370	
12381	42749	A	12456	1	3135	
12382	42750	A	12457	1	942	
12383	42751	A	12458	1	462	
12384	42752	A	12459	1	297	
12385	42753	A	12460	935	1338	CTDGLFVWMSFLVFSFPLPPCS LISDCSASNERDSVGVPSEPG AGYNLVVRRFLSPSEKRSIRV* VTRFSRCRPSPLSLTRKGNSLTP CASQVRQCLALFRLAHGVRTH SPAPT VWHSLPKVGPFLNSVP
12386	42754	A	12461	1	268	
12387	42755	A	12462	3	479	
12388	42756	A	12463	1	262	
12389	42757	A	12464	1	304	MAGAPAPASLPPCSLISDCCAS NQRD SMGVGPSEPGAGYNLVP V\EKRSIRVGVTGFSRCCPSPLSL TRKGNSLTPWASQVRQCLALL QLAHGRGSPNPRP
12390	42758	A	12465	1	512	
12391	42759	B	12466	1	1257	
12392	42760	A	12467	1	705	
12393	42761	A	12468	1	3039	
12394	42762	B	12469	66	467	
12395	42763	C	12470	360	747	